
REPORT

*2006 First Quarter
Groundwater Monitoring Report*

*Former CENCO Refinery
12345 Lakeland Road
Santa Fe Springs, California*

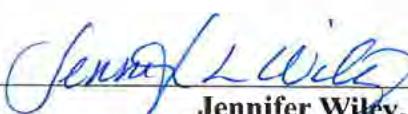
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1. Introduction

Blasland, Bouck & Lee, Inc. (BBL) has prepared this quarterly Groundwater Monitoring Report for CENCO Refining Company on behalf of Isola and Associates, LLP. The former CENCO refinery (Site) is located at 12345 Lakeland Road in Santa Fe Springs, California (Figure 1). This report describes the groundwater monitoring activities performed at the Site, the Lakeland property, the Metropolitan State Hospital property, the Bloomfield property, and the Walker property (Figure 2). The purpose of the groundwater monitoring program is to evaluate groundwater quality beneath and in the vicinity of the site. The monitoring event discussed in this report was conducted on February 13 through February 16, 2006 in accordance with the California Regional Water Quality Control Board (RWQCB) Los Angeles Region Cleanup and Abatement Order (CAO) 85-17.

1.1 Site Description

The site is approximately 55 acres in size and is bordered to the north by Florence Avenue, to the south by Lakeland Road, and to the east by Bloomfield Avenue. Commercial/light industrial properties border the site to the west. The site was operated as an oil refinery from the 1930s until July 1995. Historical aerial photographs indicate that the western portion of the site may have been used for agricultural purposes from approximately 1928 to 1938. Oil production-related structures such as ponds and aboveground holding tanks may have also been located on-site during these years. The refinery is not currently in operation; however, many of the structures related to the former oil refinery operations remain on-site. These structures are scheduled to be removed from the site prior to the redevelopment of the property for commercial/light industrial use (Haley & Aldrich, Inc., 2005).

Previous refining operations included processing crude oil into several grades of fuel including kerosene, leaded gasoline and aviation fuel, unleaded gasoline, jet fuel, high and low sulfur diesel, fuel oil, and petroleum coke. Soil and groundwater beneath and in proximity to the site have been impacted by past site operations. Soil and groundwater investigations are being conducted pursuant to two CAOs (85-17 and 97-118) issued by the RWQCB to Powerine Oil Company (CENCO Refining Company) in 1985 and 1997 (Haley & Aldrich, Inc., 2005).

1.2 Summary of Groundwater Monitoring Activities

Groundwater monitoring has been conducted on-site since August 1986. The last groundwater monitoring event was performed by BBL in October of 2005. The quarterly groundwater monitoring program currently consists of 28 wells as described below (Figure 2):

- Nine on-site groundwater monitoring wells;
- Ten off-site downgradient groundwater monitoring wells on the former Lakeland property and the Metropolitan State Hospital property;
- Four off-site groundwater monitoring wells southeast of the site on the Walker property;
- Three off-site groundwater monitoring wells east of the site on the Bloomfield property; and
- Two on-site deep former water production wells.

The three Bloomfield property wells (MW-106, MW-107, and MW-203) were not monitored since they were abandoned (2 wells) or damaged (1 well) during redevelopment activities. The wells were re-installed following this monitoring event. Monitoring of these wells will be resumed next quarter.

A total of 25 wells (excluding the three Bloomfield wells) were gauged to determine groundwater elevation. Of the 25 wells, six (MW-101, MW-103, MW-202, MW-501A, MW-601A, and MW-604) were dry and two (EW-1 and MW-600A) contained free phase petroleum hydrocarbons (FPPH) and, therefore, were not sampled. Two wells (MW-504 and W-3A) were found to contain a sheen during purging. Samples were collected from these wells. Groundwater samples were collected from a total of 17 wells and analyzed for total petroleum hydrocarbons as gasoline (TPH-g) by U.S. Environmental Protection Agency (EPA) Preparation Method 5030B and Method 8015M (DHS LUFT), volatile organic compounds (VOCs) and oxygenates by EPA Preparation Method 5030B and Method 8260B, and hexavalent chromium by EPA Method 7199. In addition, groundwater samples from five of these wells were analyzed for methane, nitrate, sulfate, alkalinity, and ferrous iron to evaluate potential evidence of biodegradation of petroleum hydrocarbons in groundwater. All samples were transported to Associated Laboratories, under proper chain-of-custody procedures. Associated Laboratories is accredited by the California Department of Health Services, Environmental Laboratory Accreditation Program.

Water quality parameters including temperature, pH, turbidity, electric conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured in the field prior to well sampling.

Field activities were conducted in accordance with the Standard Operating Procedures (SOPs) prepared for the Site. SOPs for groundwater sampling, equipment decontamination, and investigation-derived waste handling and storage are included as Appendix A.

2. Groundwater Monitoring Results

The results of this quarterly groundwater monitoring event are presented below. A summary of groundwater level measurements, depth to water, depth to hydrocarbons, FPPH thickness, and groundwater elevation is presented in Table 1. Analytical results are summarized in Tables 2 through 4. The FPPH thickness and water level measurements, recorded on well measurement forms, are included in Appendix B and complete laboratory reports are enclosed in Appendix C. A comparison of available data from this monitoring event and last quarter's (October 2005) sampling event is presented in Table 5. It is important to recognize that the results presented in this report do not distinguish between facility and non-facility related constituents in groundwater.

2.1 Groundwater Surface Elevation

The groundwater surface elevation was calculated for each well by subtracting the water level measurement from the top of casing elevation (Table 1). Groundwater elevations were adjusted for wells with FPPH, which was assumed to have a relative density of 0.80. This is the mean density value for various petroleum hydrocarbon mixtures. Groundwater elevations are shown on Figure 3.

Based on the groundwater level measurements obtained on February 13, 2006, groundwater beneath the site vicinity ranges in depth from 88.49 to 103.91 feet below ground surface (bgs). Groundwater elevations have increased by an average of 0.8 feet since October 2005 (BBL, 2006).

The average groundwater gradient across the property is approximately 0.01 feet per foot (ft/ft) as shown in Figure 3. Groundwater flow direction varies in the vicinity of the site from a south-southwesterly direction in the northeastern portion of the site to a south-southeasterly direction beneath the Metropolitan State Hospital property. These flow directions are consistent with those historically reported in previous investigations.

2.2 Free-Phase Petroleum Hydrocarbons

Measurable FPPH (light non-aqueous phase liquid) was detected in two monitoring wells during this sampling event. The FPPH thickness was 0.66 feet in well EW-1 and 3.23 feet in MW-600A. Wells MW-504 and W-3A were found to contain a sheen during purging. During the previous groundwater monitoring event in October 2005, FPPH was detected in four wells (EW-1, MW-600A, W-3A, and MW-504) with thicknesses ranging from approximately 1.00 to 3.66 feet (BBL, 2006). Based on February 2006 measurements, the FPPH plume appears to be smaller than last quarter. FPPH thickness and depth to product are shown on Table 1.

An FPPH layer has been observed in well EW-1 since 1990, and based on characterization analysis performed in 2001 these hydrocarbons consist primarily of diesel fuel and gasoline range hydrocarbons. However, the source of the FPPH detected in EW-1 is not known. CENCO has only owned one pipeline located beneath Lakeland Road, just north of EW-1. This pipeline was only used for transport of crude oil in crude oil service and is not believed to be a source of the FPPH found in EW-1 (Haley & Aldrich, 2004).

2.3 Groundwater Analytical Results

A total of 17 wells were sampled during this groundwater monitoring event between February 13 and February 16, 2006 (Figure 2). All groundwater samples were analyzed for total petroleum TPH-g, VOCs and oxygenates,

and hexavalent chromium. Additional groundwater samples were collected from five selected wells and analyzed for methane, nitrate, sulfate, alkalinity, and ferrous iron to evaluate potential evidence of biodegradation of petroleum hydrocarbons in groundwater. Analytical results are summarized in Tables 2 through 4 and complete laboratory reports are included in Appendix C.

2.3.1 TPH-g

TPH-g was detected in 15 of the 17 samples analyzed at concentrations ranging between 0.053 milligrams per liter (mg/L) (MW-605) and 47.6 mg/L (MW-502) (Table 2). The maximum detected TPH-g concentration during last quarter's sampling event in October 2005 was 15 mg/L in well MW-502 (Table 5). TPH-g levels decreased in several of the sampled wells (MW-105, MW-201, MW-204, MW-205, MW-607, W-1, and W-8). Wells MW-502, MW-503B, MW-603, and W-4 had an increase in TPH-g concentrations since last quarter. The largest increase, 32.6 mg/L, was seen in well MW-502.

2.3.2 VOCs and Oxygenates

A summary of VOC and oxygenate analytical results is presented in Table 2. A comparison of selected VOC and oxygenate data from this monitoring event and last quarter's monitoring event is presented in Table 5.

Benzene was present in eight wells at concentrations ranging from 0.0015 mg/L (MW-204) to 1.28 mg/L (MW-502). The California Maximum Contaminant Level (MCL) for benzene in drinking water is 0.001 mg/L. The benzene concentration in well MW-502 increased from 0.90 mg/L in October 2005 to 1.28 mg/L. A slight increase was observed in well W-4 as well.

Of the other BTEX compounds analyzed for, toluene was detected in three wells at concentrations varying between 0.0025 mg/L (MW-201) and 0.076 mg/L (MW-504). All toluene detections were below the 0.15 mg/L California MCL. Ethylbenzene was detected in five wells at concentrations ranging from 0.0025 mg/L (MW-204) to 0.616 mg/L (MW-502). The California MCL for ethylbenzene in drinking water is 0.3 mg/L. Total xylenes, including the ortho, meta, and para isomers, were detected in four wells at concentrations ranging from 0.0014 mg/L (MW-204) to 0.511 mg/L (MW-504). All xylene detections were below the California MCL of 1.75 mg/L.

The oxygenate methyl *tert*-butyl ether (MTBE), was detected in six wells at concentrations ranging from 0.0021 mg/L (MW-607) to 29.3 mg/L (MW-502). The California MCL for MTBE in drinking water is 0.005 mg/L. MTBE concentrations do not appear to have significantly changed since last quarter, with the exception of well MW-502, where the levels increased from 15 mg/L in October 2005 to 29.3 mg/L (Table 5).

Tert-butyl alcohol (TBA), another oxygenate and a byproduct of MTBE breakdown, was detected in nine wells with a maximum concentration of 0.091 mg/L in well MW-204. The analytical results of TBA are consistent with last quarter's results.

The final oxygenate detected during this event was di-isopropyl ether (DIPE). DIPE was detected in one well (MW-105) at a concentration of 0.0012 mg/L, lower than the concentration from last quarter (0.0021 mg/L).

In addition to the aforementioned contaminants, 19 additional VOCs were detected in the groundwater during this sampling event. The constituents are as follows with the frequency of detection shown in parentheses: n-butyl benzene (1), sec-butyl benzene (5), chloroform (1), 1,1,-dichloroethane (1,1-DCA) (2), 1,2,-dichloroethane

(1), 1,1-dichloroethene (1,1-DCE) (2), cis-1,2,-dichloroethene (7), trans-1,2-dichloroethene (3), isopropyl benzene (8), p-isopropyl toluene (2), naphthalene (2), n-propyl benzene (7), tetrachloroethene (PCE) (3), 1,1,2-trichloro-1,2,2-trifluoroethane (1), trichloroethene (TCE) (4), trichlorofluoromethane (1), 1,2,4-trimethyl benzene (6), 1,3,5-trimethyl benzene (4), and vinyl chloride (3). The highest of these VOC concentrations were of naphthalene and 1,2,4-trimethylbenzene which were detected at maximum concentrations of 0.183 mg/L (MW-502) and 0.152 mg/L (MW-504), respectively. N-propyl benzene (0.117 mg/L) and 1,3,5-trimethylbenzene (0.139 mg/L) in well MW-502 were the next highest concentrations detected. No California MCLs have been established for these analytes. PCE and TCE were detected at 0.103 mg/L and 0.11 mg/L, respectively, in well MW-603. Both contaminants exceeded the 0.005 mg/L MCL for PCE and TCE in California. Nevertheless, PCE and TCE concentrations were less than last quarter (0.16 mg/L for PCE and 0.15 mg/L for TCE).

Historical records indicate that there are no known or suspected sources of halogenated VOCs to groundwater from former refinery operations. Therefore, these compounds most likely originated from off site sources (Haley & Aldrich, 2004).

2.3.3 Hexavalent Chromium

Hexavalent chromium was detected in two of the 17 wells sampled, with a maximum concentration of 0.0035 mg/L in well MW-606. Hexavalent chromium in this well increased from 0.002 mg/L in October 2005 to 0.0035 mg/L in February 2006 without exceeding the California MCL of 0.05 mg/L. A summary of hexavalent chromium results is presented in Table 3.

2.3.4 Distribution of Constituents

Analysis of groundwater collected from MW-105, an upgradient well at the north boundary of the property, demonstrated the presence of TPH-g in this part of the site. TBA, DIPE, PCE, and TCE were also detected in this upgradient well. The detection of these contaminants in the upgradient well suggests the presence of off-site, upgradient sources. In addition, the chlorinated solvents PCE and TCE were present only in wells located on the west side of the Site (e.g. MW-603, MW-605, and MW-201).

The highest concentrations of TPH-g detected during this sampling event were from wells clustered in a relatively small area on the southern part of the property (Figure 5). TPH-g was detected at concentrations of 47.6 mg/L, 18 mg/L, and 5.45 mg/L in wells MW-502, MW-504, and MW-503B, respectively. Monitoring wells MW-502 and MW-503B are located on the former Lakeland property and well MW-504 is located on-site at the southwest part of the CENCO property. In these wells the highest benzene levels were also detected: 1.28 mg/L in MW-502, 0.675 mg/L in MW-504, and 0.331 mg/L in MW-503B. Wells MW-502 and MW-504 had the highest detected ethylbenzene concentrations of 0.616 mg/L and 0.262 mg/L, respectively. Naphthalene was only detected in these two wells. MW-504 contained a sheen, and contained measurable FPPH last quarter.

While the footprint of impacted groundwater has not changed shape or size substantially since the 2004 groundwater monitoring event, benzene and TPH-g concentrations have increased in the area of MW-504, MW-503B, and MW-502. In general, the leading/downgradient edge of the plume shows a decrease in TPH-g concentrations on the southern and southeastern edges of the plume (wells MW-606, MW-607, and W-3A [last quarter W-3A contained FPPH]). The southwestern edge of the plume shows an increase in TPH-g (wells MW-603 and MW-605) (Figure 5). The leading edge of the plume shows the same or decreased benzene concentrations and similar MTBE concentrations on the southern (MW-606), southeastern edges (MW-607 and

W-3A [last quarter W-3A contained FPPH]), and southwestern edges (MW-603 and MW-605) of the plume (Figure 4).

Historical laboratory analytical results are included in Appendix D.

2.3.5 Biodegradation Results

A summary of the results of the biodegradation indicator parameters is presented in Table 4. The parameters pH, DO, and ORP, were measured in the field and are also shown in this table. Analyses were conducted in the laboratory for methane, nitrate, sulfate, total alkalinity, and ferrous iron. Field parameter data were collected from 15 monitoring wells (the two former production wells were not purged) and laboratory analyses were performed on five wells. These five wells (MW-104A, MW-205, MW-503B, MW-605, and MW-606) were previously selected for the evaluation of biodegradation potential based on their location. Details of the study design, including the well selection process, are provided in the 2004 Semi-Annual Groundwater Monitoring Report (Haley & Aldrich, 2004).

2.3.5.1 Field Parameters

Field parameters (pH, DO, and ORP) were measured in the field using a Horiba U-22 water quality meter. The probe was inserted into a grab water sample collected from a vacuum truck during purging. It is important to note that the vacuum stinger method used to purge the wells may introduce more oxygen into the water. Therefore recorded data for DO may overestimate the oxygen content.

pH - This parameter is a measurement of the acidity or alkalinity of a solution and ranged between 8.34 and 8.86 in the 15 wells measured. This indicates a slightly alkaline environment that is suitable for the growth of alkophilic bacteria and microorganisms that thrive at a neutral pH.

Dissolved Oxygen (DO) - This parameter is the preferred electron acceptor in the biodegradation of petroleum hydrocarbons. When aerobic biodegradation occurs, DO concentrations are expected to decline as microorganism exhaust the electron acceptor during aerobic respiration. The DO concentrations varied between 4.51 mg/L to 7.70 mg/L, reflecting an aerobic environment. However, purging the wells prior to sampling might have significantly contributed to the observed DO levels.

Oxidation Reduction Potential (ORP) - This parameter is a measure of electron activity which reflects the oxidizing or reducing nature of the environment. The ORP values are generally negative under reducing conditions (gaining electrons) and positive under oxidizing conditions (losing electrons). Anaerobic biodegradation has a tendency to create reducing conditions resulting in negative ORP readings. Negative ORP readings were observed in five wells (MW-105, MW-205, MW-502, MW-503B, and MW-607) ranging between -43 millivolts (mV) and -126 mV.

2.3.5.2 Laboratory Parameters

The laboratory parameters of interest for the Site are total alkalinity, nitrate, ferrous iron, sulfate, and methane.

Total alkalinity results from the presence of hydroxides, carbonates, and bicarbonates. Aerobic biodegradation in groundwater may result in increased alkalinity to the evolution of carbon dioxide. Total alkalinity varied

between 400 mg/L to 803 mg/L. As in the previous sampling event, the highest alkalinity levels were observed in wells MW-205 (630 mg/L) and MW-503B (713 mg/L).

Nitrate (NO_3^-) may be used as an electron acceptor in anoxic environments where the dissolved oxygen has been depleted. During this biodegradative process, nitrate loses an oxygen atom and is reduced to nitrite (NO_2^-). The decreased levels of dissolved nitrate in wells containing higher concentrations of hydrocarbons generally indicate the occurrence of denitrification. Nitrate was detected in two of the five wells at concentrations of 38.2 mg/L (MW-605) and 34 mg/L (MW-606), showing a significant increase from last quarter (8.3 mg/L for MW-605 and 3 mg/L for MW-606).

Ferric iron (Fe^{+3}) may be used as an electron acceptor during anaerobic degradation of petroleum hydrocarbons where it is reduced to ferrous iron (Fe^{+2}). Ferrous iron was below the 0.1 mg/L reporting limit in all of the sampled wells.

Sulfate may also be used as an electron acceptor for anaerobic biodegradation once dissolved oxygen and nitrate are exhausted. A drop in sulfate concentrations in wells with high concentrations of petroleum hydrocarbons indicates the occurrence of anaerobic biodegradation. Sulfate was detected in all five wells at concentrations ranging between 36.5 mg/L in MW-503B and 341 mg/L in MW-205, with the latter showing a significant increase from last quarter.

Methane is a dissolved gas and a byproduct of methanogenic reducing activity which is indicative of anaerobic biodegradation. Methane is typically produced once the electron acceptors oxygen, sulfate and nitrate have been completely utilized. Therefore, as methane concentrations increase, dissolved oxygen, sulfate and nitrate concentrations typically decrease. Methane was detected in three (MW-104A, MW-205, and MW-503B) of the 5 sampled wells at concentrations ranging between 0.059 mg/L in well MW-104A and 1.036 mg/L in MW-205.

2.3.6 Analysis of Biodegradation Results

Biodegradation of TPH-g compounds most commonly occurs by aerobic, nitrate-reducing, Fe^{+3} -reducing, sulfate-reducing, or methanogenic respiration. The TPH-g (and BTEX) serve as electron donors for the microbial metabolism in aerobic biodegradation. Electron acceptors include oxygen, nitrate, Fe^{+3} , sulfate, and carbon dioxide. In general, if sufficient oxygen is present, aerobic biodegradation will occur first. When the dissolved oxygen concentrations fall below approximately 0.5 mg/L (an anoxic environment), denitrification will begin if nitrate is present. After most nitrate has been consumed, Fe^{+3} -reduction will begin if Fe^{+3} is present. Fe^{+3} concentrations will decrease, while Fe^{+2} concentrations increase. After most Fe^{+3} is consumed, sulfate-reduction will begin if sulfate is available. After most sulfate has been consumed, methanogenesis, which uses carbon dioxide as an electron acceptor, begins. During methanogenesis, methane concentrations increase (Department of the Navy, 1998).

Use of a vacuum truck during purging introduces air to the wells, rendering the DO measurements unreliable in confirming aerobic degradation as the dominant breakdown process of the contaminants. However, the oxidation-reduction potential (ORP) of the wells can be used to assess the oxygen presence in the aquifer. Negative ORP values reflect anaerobic conditions while positive values indicate aerobic conditions. The most highly negative ORP values were observed in wells MW-607 (-126 mV), MW-503B (-116 mV), and MW-105 (-112 mV). The most highly positive ORP values were observed in wells MW-606 (240 mV), MW-605 (235 mV), MW-603 (224 mV), and MW-104A (219 mV).

Among the wells sampled for biodegradation indicator parameters, wells MW-605 and MW-606 contained detectable nitrate concentrations (38.2 mg/L and 34 mg/L, respectively), and hence may be available for denitrification. None of the wells contained detectable Fe^{+2} , and as a result are not undergoing Fe^{+3} -reduction. All five sampled wells contained detectable sulfate concentrations, ranging from 36.5 mg/L (MW-503B) to 341 mg/L (MW-205), and therefore may be available for sulfate-reduction. The presence of methane in wells MW-104A, MW-205, and MW-503B indicates that methanogenesis may be occurring in these three wells. The high alkalinity observed in these three wells compared to the remaining wells supports that the environment is conducive to methanogenesis, and that prior to methanogenesis, aerobic degradation may have occurred. When TPH-g and components are broken down aerobically, carbon dioxide is released into the aqueous environment in the form of carbonates or bicarbonates raising the alkalinity.

The results of the biodegradation indicator parameters indicate that biodegradation, whether aerobic or anaerobic, may be occurring in the wells mentioned above. However, additional data is needed to further assess the groundwater environment and potential biodegradation activities.

2.3.7 Quality Control/Quality Assurance (QA/QC)

Trip blanks assess potential sample contamination from transportation and storage of samples. One trip blank (provided by the laboratory) accompanied each daily groundwater sample shipment to the laboratory for a total of three trip blanks. The trip blanks were analyzed for VOCs and TPH-g. The trip blank data showed non-detectable levels for all constituents.

Duplicate samples, which assess the precision of the laboratory analysis, were collected from two wells (MW-105 and MW-605) during this groundwater sampling event. The duplicates followed the same analysis protocols as the primary samples. Duplicate sample results are shown on Tables 2 through 4, along with the primary sample results. The duplicate sample results show similar concentrations of the analytes as their respective primary samples, as would be expected.

Equipment blanks were not collected because dedicated stingers were used to purge the wells and new disposable bailers were used for sampling, therefore eliminating cross-contamination between wells during the purging and sampling process.

3. Conclusions

Groundwater monitoring was performed at the former CENCO refinery site in February 2006 as part of an ongoing groundwater monitoring plan intended to evaluate chemical impacts, contaminant sources, and overall groundwater quality at the site. This groundwater monitoring event included gauging 25 wells in the CENCO monitoring well network (not including three abandoned/damaged wells that could not be gauged) and analyzing VOCs, TPH-g, hexavalent chromium in 17 wells, and additional biodegradation parameters (methane, nitrate, sulfate, total alkalinity, ferrous iron, pH, DO, and ORP) for five of the 17 sampled wells.

A relatively steep groundwater gradient of approximately 0.01ft/ft was observed for the recent groundwater monitoring event, which is consistent with historical gradient data for the site. Overall, groundwater levels have risen by an average of 0.8 feet since the last measurement, taken in October 2005.

Measurable FPPH was present in two wells (EW-1 and MW-600A) and a sheen was present during purging of two wells (MW-504 and W-3A) within the CENCO monitoring well network. FPPH observed in MW-600A may have originated from a source on the CENCO site, as proposed by Haley & Aldrich (2004); however, FPPH observed in EW-1 likely originated from northeast of the site, based on local groundwater flow direction. The thicknesses detected within these wells do not necessarily reflect FPPH thickness in the surrounding aquifer as fluctuations in water level and permeability factors can influence FPPH accumulation in monitoring wells.

Groundwater monitoring results at the site are generally consistent with historical observations and analyses. The number of wells in which FPPH was observed has decreased from six in June 2004, to four in October 2005, to only two in February 2006, with a sheen on the other two wells which had FPPH last quarter. TPH-g concentrations declined in several of the sampled wells, namely MW-105, MW-201, MW-204, MW-205, MW-607, W-1, and W-8. An increase in TPH-g and MTBE was observed in well MW-502. Benzene levels decreased in wells MW-201, MW-204, MW-205, MW-503B, and W-1.

In general, the leading/downgradient edge of the plume shows a decrease in TPH-g concentrations on the southern and southeastern edges of the plume (wells MW-606, MW-607, and W-3A [last quarter W-3A contained FPPH]). The southwestern edge of the plume shows an increase in TPH-g (wells MW-603 and MW-605). The leading edge of the plume shows the same or decreased benzene concentrations and similar MTBE concentrations on the southern (MW-606), southeastern edges (MW-607 and W-3A [last quarter W-3A contained FPPH]), and southwestern edges (MW-603 and MW-605) of the plume.

Hexavalent chromium was demonstrated to be generally below detection limits and in all cases below California MCLs during the February 2006 sampling event.

Intrinsic biodegradation continues to be viable, in at least some areas of the site, based on conditions measured in the subsurface. Nitrate, sulfate, ferrous iron, methane, alkalinity, and ORP indicate the potential for intrinsic biodegradation occurring in the vicinity of the site.

4. References

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Tables

TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS

2006 FIRST QUARTER GROUNDWATER MONITORING REPORT
ISOLA ASSOCIATES, LLP
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
EW-1	2/13/2006	NM	99.55	98.89	0.66	13.38	112.40
	10/4/2005	NM	100.12	98.40	1.72	13.66	112.40
MW-101	2/13/2006	90.20	Dry	NA	0	Dry	135.23
	10/4/2005	92.70	Dry	NA	0	Dry	135.23
MW-103	2/13/2006	94.38	Dry	NA	0	Dry	136.95
	10/4/2005	94.55	Dry	NA	0	Dry	136.95
MW-104A	2/13/2006	98.05	89.66	NA	0	51.50	141.16
	10/4/2005	97.60	89.85	NA	0	51.31	141.16
MW-105	2/13/2006	100.10	89.95	NA	0	48.68	138.63
	10/4/2005	100.15	91.03	NA	0	47.60	138.63
MW-106	2/13/2006	Wells re-installed following Feb. 2006 sampling event					148.41
	10/4/2005						148.41
MW-107	2/13/2006	Wells re-installed following Feb. 2006 sampling event					148.93
	10/4/2005						148.93
MW-201	2/13/2006	93.69	91.80	NA	0	41.11	132.91
	10/4/2005	101.52	93.07	NA	0	39.84	132.91
MW-202	2/13/2006	92.64	Dry	NA	0	Dry	137.89
	10/4/2005	92.59	Dry	NA	0	Dry	137.89
MW-203	2/13/2006	Wells re-installed following Feb. 2006 sampling event					143.89
	10/4/2005						143.89
MW-204*	2/13/2006	96.72	95.24	NA	0	NA	NM
	10/4/2005	99.68	97.86	NA	0	42.28	140.14
MW-205	2/13/2006	98.32	90.92	NA	0	47.12	138.04
	10/4/2005	98.25	92.00	NA	0	46.04	138.04
MW-501A	2/13/2006	92.60	Dry	NA	0	Dry	NM
	10/4/2005	92.58	Dry	NA	0	Dry	NM
MW-502	2/13/2006	100.56	93.40	NA	0	34.90	128.30
	10/4/2005	100.49	94.90	NA	0	33.40	128.30
MW-503B	2/13/2006	108.79	93.79	NA	0	36.17	129.96
	10/4/2005	108.60	95.34	NA	0	34.62	129.96
MW-504**	2/13/2006	95.95	93.80	NA	Sheen	40.71	134.51
	10/4/2005	95.85	95.12	NM	NM	NM	134.51
MW-600A	2/14/2006	NM	91.15	87.92	3.23	31.77	120.34
	10/4/2005	NM	92.62	89.46	3.16	30.25	120.34

TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS

2006 FIRST QUARTER GROUNDWATER MONITORING REPORT
ISOLA ASSOCIATES, LLP
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-601A	2/13/2006	89.65	Dry	NA	0	Dry	126.53
	10/4/2005	89.40	Dry	NA	0	Dry	126.53
MW-603	2/13/2006	96.90	88.49	NA	0	30.05	118.54
	10/4/2005	97.28	89.53	NA	0	29.01	118.54
MW-604	2/13/2006	103.25	Dry	NA	0	Dry	138.16
	10/4/2005	103.14	102.78	NA	0	35.38	138.16
MW-605	2/13/2006	94.00	88.91	NA	0	25.63	114.54
	10/4/2005	94.03	91.22	NA	0	23.32	114.54
MW-606	2/13/2006	99.30	91.98	NA	0	21.91	113.89
	10/4/2005	99.16	94.21	NA	0	19.68	113.89
MW-607	2/13/2006	106.61	103.34	NA	0	22.69	126.03
	10/4/2005	106.80	104.78	NA	0	21.25	126.03
W-1	2/13/2006	129.61	102.60	NA	0	40.29	142.89
	10/4/2005	129.63	102.95	NA	0	39.94	142.89
W-3A**	2/13/2006	104.60	102.78	NA	Sheen	21.22	124.00
	10/4/2005	104.55	104.55	103.55	1.00	20.25	124.00
W-4	2/13/2006	129.54	103.91	NA	0	38.47	142.38
	10/4/2005	129.07	104.36	NA	0	38.02	142.38
W-7***	2/13/2006	NM	85.63	NA	0	NA	NM
	10/4/2005	NM	87.97	NA	0	NM	NM
W-8***	2/13/2006	NM	69.11	NA	0	NA	NM
	10/4/2005	NM	69.18	NA	0	NM	NM

Notes:

Groundwater elevation = (top of casing elevation - depth to water) + (0.8 x hydrocarbon thickness).

Groundwater elevation correction for the presence of free product was performed assuming a specific gravity of 0.8 for the petroleum product.

NA- Not applicable.

NM- Not measured.

* Damage to casing of monitoring well MW-204 was discovered in October 2005; casing above ground was cut in order to collect groundwater sample.

Top of casing has not yet been resurveyed.

** Sheen developed during sampling of monitoring wells MW-504 and W-3A.

*** Former production wells W-7 and W-8 were never surveyed and are not used in calculating groundwater gradients (screened in a deeper aquifer).

msl- Mean sea level.

TABLE 2
SUMMARY OF TPH-g, VOCs, AND OXYGENATES IN GROUNDWATER

2006 FIRST QUARTER GROUNDWATER MONITORING REPORT
ISOLA AND ASSOCIATES, LLP
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	MW-104A	MW-105		MW-201	MW-204	MW-205	MW-502	MW-503B	MW-504	MW-603	MW-605		MW-606	MW-607	W-1	W-3A	W-4	W-7	W-8	
Sample ID	MW-104A-0206	MW-105-0206	MW-105-0206-D	MW-201-0206	MW-204-0206	MW-205-0206	MW-502-0206	MW-503B-0206	MW-504-0206	MW-603-0206	MW-605-0206	MW-605-0206-D	MW-606-0206	MW-607-0206	W-1-0206	W-3A-0206	W-4-0206	W-7-0206	W-8-0206	
Date	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/15/2006	2/14/2006	2/14/2006	2/14/2006	2/16/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/14/2006	2/16/2006	2/16/2006	2/16/2006		
Analyte	California MCL (mg/L)	Concentration (mg/L)																		
TPH-g	NA	ND<0.05	0.205	0.204	1.89	0.111	0.411	47.6	5.45	18	0.245	0.053	ND<0.05	ND<0.05	0.373	0.266	0.306	0.501	0.0609	0.192
Acetone	NA	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<1	ND<1	ND<1	ND<1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	ND<0.1	
Benzene	0.001	ND<0.001	ND<0.001	ND<0.001	0.128	0.0015	0.035	1.28	0.331	0.675	ND<0.001	ND<0.001	ND<0.001	ND<0.001	0.032	ND<0.001	0.043	ND<0.001	ND<0.001	ND<0.001
n-Butylbenzene	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.032J	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	
sec-Butylbenzene	NA	ND<0.005	ND<0.005	ND<0.005	0.0011J	ND<0.005	ND<0.005	ND<0.05	0.018J	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.0026J	ND<0.005	0.023	0.002J	ND<0.005	ND<0.005
Chloroethane	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	
Chloroform	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.0024J	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
1,4-Dichlorobenzene	0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	ND<0.05	
1,1-Dichloroethane	0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.05	ND<0.05	0.006	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.025J	ND<0.005	ND<0.005	ND<0.005
1,2-Dichloroethane	0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.05	ND<0.05	0.028	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
1,1-Dichloroethene	0.006	ND<0.005	0.0073	0.0074	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.05	ND<0.05	0.08	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
c-1,2-Dichloroethene	0.006	0.002J	0.0088	0.0088	0.0081	0.0026J	0.019	ND<0.05	ND<0.05	ND<0.05	0.017	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.0028J	ND<0.005	ND<0.005	ND<0.005
t-1,2-Dichloroethene	0.01	ND<0.005	0.0032J	0.0030J	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.05	ND<0.05	ND<0.05	0.0035J	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.0013J	ND<0.005	ND<0.005	ND<0.005
Ethylbenzene	0.3	ND<0.005	ND<0.005	ND<0.005	0.015	0.0025J	ND<0.005	0.616	0.012J	0.262	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005
Isopropylbenzene	NA	ND<0.005	ND<0.005	0.0053	ND<0.005	ND<0.005	0.087	0.069	0.038J	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.008	0.0043J	0.019	0.012	ND<0.005	ND<0.005
p-Isopropyltoluene	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	0.016J	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.0082	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
Naphthalene	NA	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.183	ND<0.05	0.082	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
n-Propylbenzene	NA	ND<0.005	ND<0.005	ND<0.005	0.0033J	ND<0.005	ND<0.005	0.117	0.056	0.03J	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.011	ND<0.005	0.027	0.0075	ND<0.005	ND<0.005
Tetrachloroethylene	0.005	ND<0.005	0.0044J	0.0040J	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.05	0.103	0.0053	0.0042J	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
Toluene	0.15	ND<0.005	ND<0.005	0.0025J	ND<0.005	ND<0.005	0.032J	ND<0.05	0.076	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
1,1,2-Trichloro-1,2,2-Trifluoroethane	1.2	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.05	ND<0.05	0.0055	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.005	
Trichloroethene	0.005	ND<0.005	0.036	0.034	0.0016J	ND<0.005	ND<0.005	ND<0.05	ND<0.05	ND<0.0										

TABLE 3
SUMMARY OF HEXAVALENT CHROMIUM IN GROUNDWATER

2006 FIRST QUARTER GROUNDWATER MONITORING REPORT
ISOLA AND ASSOCIATES, LLP
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Sample ID	Sample Date	Hexavalent Chromium (milligrams per liter [mg/L])
MW-104A	MW-104A-0206	2/15/2006	ND<0.0003
MW-105	MW-105-0206	2/15/2006	ND<0.0003
	MW-105-0206-D	2/15/2006	ND<0.0003
MW-201	MW-201-0206	2/15/2006	ND<0.0003
MW-204	MW-204-0206	2/15/2006	ND<0.0003
MW-205	MW-205-0206	2/15/2006	ND<0.0003
MW-502	MW-502-0206	2/14/2006	ND<0.0003
MW-503B	MW-503B-0206	2/14/2006	ND<0.0003
MW-504	MW-504-0206	2/16/2006	ND<0.0003
MW-603	MW-603-0206	2/14/2006	ND<0.0003
MW-605	MW-605-0206	2/14/2006	0.0002J
	MW-605-0206-D	2/14/2006	0.0003
MW-606	MW-606-0206	2/14/2006	0.0035
MW-607	MW-607-0206	2/14/2006	ND<0.0003
W-1	W-1-0206	2/15/2006	ND<0.0003
W-3A	W-3A-0206	2/16/2006	ND<0.0003
W-4	W-4-0206	2/15/2006	ND<0.0003
W-7	W-7-0206	2/16/2006	ND<0.0003
W-8	W-8-0206	2/16/2006	ND<0.0003

Notes:

Hexavalent chromium was analyzed using EPA Method 7199.

ND< - Not detected at the indicated reporting limit.

Bold indicates detected value.

J - Compound detected at estimated value indicated.

TABLE 4
SUMMARY OF BIODEGRADATION PARAMETER RESULTS IN GROUNDWATER

2006 FIRST QUARTER GROUNDWATER MONITORING REPORT
ISOLA AND ASSOCIATES, LLP
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Sample ID	Sample Date	Laboratory Analytical Methods					Field Test Methods		
			Methane (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)	Ferrous Iron (mg/L)	pH	DO (mg/L)	ORP (mV)
MW-104A	MW-104A-0206	2/15/2006	0.059	ND<0.44	56.3	803	ND<0.10	8.79	7.7	219
MW-105	MW-105-0206	2/15/2006	NA	NA	NA	NA	NA	8.71	6.0	-112
MW-201	MW-201-0206	2/15/2006	NA	NA	NA	NA	NA	8.78	5.6	35
MW-204	MW-204-0206	2/15/2006	NA	NA	NA	NA	NA	8.86	4.93	129
MW-205	MW-205-0206	2/15/2006	1.036	ND<0.44	341	630	ND<0.10	8.78	6.64	-62
MW-502	MW-502-0206	2/14/2006	NA	NA	NA	NA	NA	8.65	5.24	-43
MW-503B	MW-503B-0206	2/14/2006	0.581	ND<0.44	36.5	713	ND<0.10	8.43	4.79	-116
MW-504	MW-504-0206*	2/16/2006	NA	NA	NA	NA	NA	NA	NA	NA
MW-603	MW-603-0206	2/14/2006	NA	NA	NA	NA	NA	8.34	5.57	224
MW-605	MW-605-0206	2/14/2006	ND<0.005	38.2	182	450	ND<0.10	8.41	4.89	235
	MW-605-0206-D	2/14/2006	ND<0.005	37.8	184	460	ND<0.10	NA	NA	NA
MW-606	MW-606-0206	2/14/2006	ND<0.005	34.0	334	400	ND<0.10	8.76	5.22	240
MW-607	MW-607-0206	2/14/2006	NA	NA	NA	NA	NA	8.44	4.51	-126
W-1	W-1-0206	2/15/2006	NA	NA	NA	NA	NA	8.60	5.06	19
W-3A	W-3A-0206	2/16/2006	NA	NA	NA	NA	NA	8.71	5.06	59
W-4	W-4-0206	2/15/2006	NA	NA	NA	NA	NA	8.76	6.32	149

Notes:

Methane was analyzed using Method RSK-175M.

Nitrate (as N) was analyzed using EPA Methods 353.3 and 354.1.

Sulfate was analyzed using EPA Method 375.4.

Total alkalinity (as CaCO₃) was analyzed using Method SM 2320B.

Ferrous iron (Iron II) was analyzed using Method SM 3500-FeD.

DO- Dissolved oxygen.

ORP- Oxidation/reduction potential.

mg/L- Milligrams per Liter.

mV- Millivolts.

ND - Not detected at the indicated reporting limit.

NA- Not analyzed.

Bold indicates detected value.

*- MW-504 was not sampled for field parameters measurement because the well was completely dewatered when purged.

TABLE 5
COMPARISON OF 2005 AND 2006 GROUNDWATER MONITORING DATA

2006 FIRST QUARTER GROUNDWATER MONITORING REPORT
ISOLA AND ASSOCIATES, LLP
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	TPH-g		MTBE		TBA		Benzene		Toluene		Ethylbenzene		p/m-Xylene		o-Xylene		
	Date	Oct-2005	Feb-2006	Oct-2005	Feb-2006	Oct-2005	Feb-2006	Oct-2005	Feb-2006	Oct-2005	Feb-2006	Oct-2005	Feb-2006	Oct-2005	Feb-2006		
MW-104A	2/15/2006	ND<0.10	ND<0.05	ND<0.001	ND<0.001	0.083	0.03	ND<0.0005	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005
MW-105	2/15/2006	0.30	0.205	ND<0.001	ND<0.001	0.025	0.027	ND<0.0005	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005
MW-201	2/15/2006	3.4	1.89	ND<0.005	ND<0.001	0.13	0.02	0.74	0.128	0.037	0.0025J	0.47	0.015	0.073	0.0063	0.018	ND<0.005
MW-204	2/15/2006	0.34	0.111	ND<0.001	ND<0.001	0.09	0.091	0.0057	0.0015	ND<0.001	ND<0.005	0.0042	0.0025J	0.0021	0.0014J	ND<0.001	ND<0.005
MW-205	2/15/2006	0.85	0.411	ND<0.001	ND<0.001	ND<0.01	ND<0.01	0.055	0.035	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005
MW-502	2/14/2006	15	47.6	15	29.3	ND<1.0	ND<0.1	0.90	1.28	ND<0.10	0.032J	0.430	0.616	0.11	0.182	ND<0.10	ND<0.05
MW-503B	2/14/2006	5.4	5.45	ND<0.02	ND<0.01	ND<0.20	ND<0.1	1.1	0.331	ND<0.02	ND<0.05	0.073	0.012J	0.038	ND<0.25	ND<0.02	ND<0.25
MW-504	2/16/2006	FP	18	FP	0.013	FP	ND<0.1	FP	0.675	FP	0.076	FP	0.262	FP	0.391	FP	0.12
MW-603	2/14/2006	0.15	0.245	ND<0.001	0.0017	ND<0.01	0.018	0.00082	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005
MW-605	2/14/2006	ND<0.10	0.053	ND<0.001	ND<0.001	ND<0.01	ND<0.01	ND<0.0005	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005
MW-606	2/14/2006	0.240	ND<0.05	0.0048	ND<0.001	0.042	ND<0.01	0.0056	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005
MW-607	2/14/2006	0.76	0.373	0.0017	0.0021	0.074	0.057	0.0012	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005
W-1	2/15/2006	0.31	0.266	0.025	0.022	0.34	0.037	0.043	0.032	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005
W-3A	2/16/2006	FP	0.306	FP	0.0062	FP	0.016	FP	ND<0.001	FP	ND<0.005	FP	ND<0.005	FP	ND<0.005	FP	ND<0.005
W-4	2/15/2006	0.35	0.501	ND<0.001	ND<0.001	0.047	0.038	0.031	0.043	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005
W-7	2/16/2006	ND<0.1	0.0609	ND<0.001	ND<0.001	ND<0.01	ND<0.01	ND<0.0005	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005
W-8	2/16/2006	0.22	0.192	ND<0.001	ND<0.001	ND<0.01	ND<0.01	0.00052	ND<0.001	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005	ND<0.001	ND<0.005

Notes:

All results in milligrams per liter.

NA- Not applicable.

NM- Not measured.

ND<- Not detected at the indicated reporting limit.

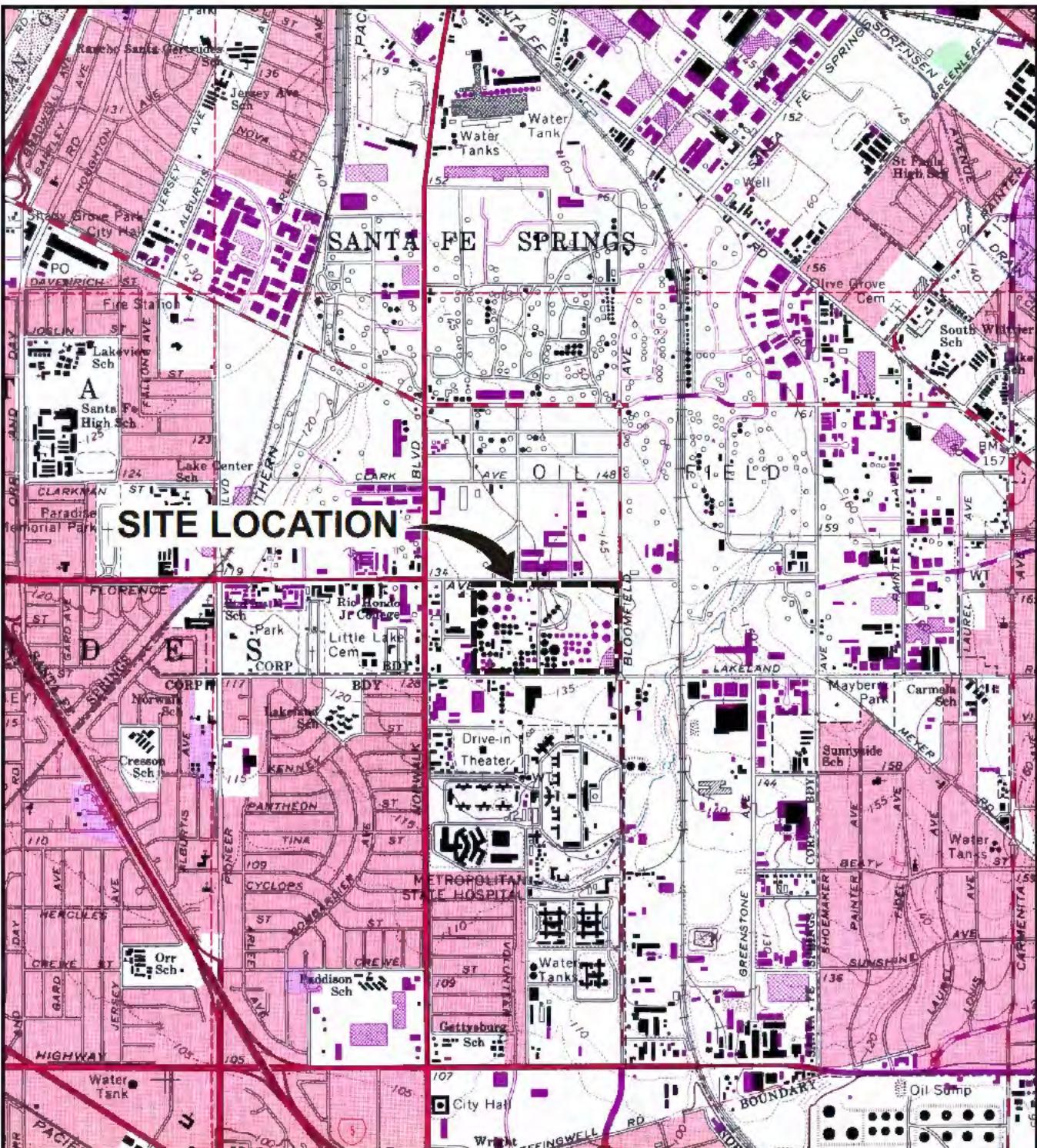
FP- Free phase petroleum hydrocarbons detected, no sample collected.

J- Compound detected at estimated value indicated.

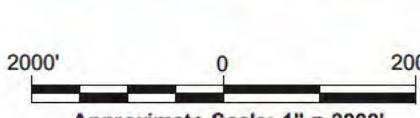
Maximum concentrations from duplicate samples from October 2005 and February 2006 sampling event are shown.

Bold indicates detected value.

Figures



REFERENCE: BASE MAP USGS 7.5 MIN. QUAD., WHITTIER, CA. 1965, PHOTOREVISED 1981.



ISOLA AND ASSOCIATES LLP
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

SITE LOCATION MAP

BBL[®]
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

FIGURE
1

FX-9 Wells

FX-9: Wells

FX-9 Wells

FX-9 Wells

Appendices

Appendix A

Standard Operating Procedures



Prepared by: _____ Date: _____

Approval Signatures

Reviewed by: _____ Date: _____
(Technical Expert)

Approved by: _____ Date: _____
(Project Manager)

Standard Operating Procedure: Field Sampling Equipment Decontamination

I. Scope and Application

The objective of this Standard Operating Procedure (SOP) is to describe the procedures to decontaminate non-dedicated, non-disposable sampling equipment and instruments intended for reuse. Equipment decontamination will occur prior to use on the site, between each sample location, and upon completion of the sampling program prior to leaving the site. Field sampling equipment will be decontaminated at a designated onsite or offsite equipment decontamination area, as designated by supervising field personnel. Sampling equipment may include the following:

- Soil sampling equipment such as hand augers, slide hammer samplers, direct push samplers, and split spoon samplers;
- Well construction materials;
- Soil sample sleeves;
- Water quality instruments;
- Water/product level meters; and
- Additional task-specific sampling equipment.

Equipment decontamination procedures for sampling equipment will be monitored with the collection of equipment rinsate blanks collected at a frequency of 5% or one per crew per day.

Equipment decontamination is a process of neutralization, washing, and rinsing exposed outer surfaces of equipment to minimize the potential for contaminant migration or cross-contamination. Decontamination methods include physical removal of contaminants, chemical detoxification, disinfection, and sterilization. Personnel decontamination procedures are described in the site *Health and Safety Plan (HASP)* (Blasland, Bouck & Lee, Inc. [BBL], 2006). Refer to the SOP for Heavy Equipment Decontamination for the proper procedure for decontaminating large equipment.

II. Personnel Qualifications

BBL field personnel must have current health and safety training, including 40-hour Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) training, site supervisor training, site-specific training, first aid, and Cardio-Pulmonary Resuscitation (CPR), as needed. In addition, BBL field personnel must be versed in the relevant SOPs and possess the required skills and experience necessary to successfully complete the desired field work. All personnel of BBL's subcontractors are also required to have current 40-hour HAZWOPER training and first aid and CPR, as needed.

III. Equipment List

- Appropriate personal protective equipment (PPE) as specified in the HASP;
- Distilled or deionized water;
- Potable water;
- Non-phosphate detergent (Liqui-Nox, Alconox, or equivalent);
- Plastic 5-gallon buckets;
- Scrub brushes;
- Garbage bags;
- Spray bottles;
- Sealable plastic bags;
- Polyethylene sheeting; and
- Lint-free absorbent towels;

IV. Cautions

Ensure the designated equipment decontamination area is in a secure location. The decontamination area should be established in the Contamination Reduction Zone (CRZ) as specified in the HASP.

V. Health and Safety Considerations

- Appropriate PPE must be worn by all field personnel within the designated work area, as stated in the project HASP;
- Do not attempt to clean equipment that is in service;
- Always utilize the appropriate lifting and moving techniques when transferring equipment to the washing station;
- Use caution when walking near equipment decontamination areas (EDAs) due to potential wet surfaces and slip/trip/fall hazards; and
- Field sampling equipment, PPE, and field samples must be carefully handled to minimize the potential spread of hazardous substances.

VI. Procedure

Setup

1. Don protective clothing.
2. Provide proper signs and barricades for the cleaning area to control access.
3. Place the item to be cleaned inside one of the EDA washing areas.

Cleaning Procedures

1. Pre-clean the entire piece of equipment by brushing off all large soil accumulations using a scrub brush.

2. Wash equipment in a non-phosphate detergent bath using a scrub brush. For larger items, it may be appropriate to clean the equipment in sections.
3. Clean the equipment with potable water and a scrub brush.
4. Conduct final rinsing with distilled/deionized water.
5. The equipment should be clean and dry before it is ready to be re-used on site.
6. In the case the equipment will not be used right away, wrap in aluminum foil with shiny side out for storage.

Before leaving the area where a piece of equipment has been cleaned, conduct a final check to make sure all discarded materials, including paper towels, plastic sheeting, and disposable gloves, have been picked up and placed in a properly labeled drum. At the end of the day, all personal protective equipment must be cleaned and stored on site. No contaminated clothing or equipment will be permitted to leave the site.

VII. Waste Management

Decontamination water will be transported from the EDA to the onsite treatment facility to be disposed off at the end of every work day. Soil residuals generated during equipment decontamination will be placed in DOT-approved drums and labeled. Containerized waste will be disposed of consistent with appropriate procedures as outlined in the Handling and Storage of Investigation-Derived Waste SOP. Used PPE is non-hazardous and will be double-bagged and placed in a municipal refuse dumpster.

VIII. Data Recording and Management

Field equipment decontamination activities will be recorded in the field logbook.

IX. Quality Assurance

After field decontamination, equipment should be handled only by personnel wearing clean gloves to prevent recontamination. In addition, the equipment should be moved away (preferably upwind) from the cleaning area to prevent recontamination. If the equipment is not to be immediately reused, it should be covered with plastic sheeting to prevent recontamination. The area where the equipment is kept prior to reuse must be free of contaminants.

All drums shall be properly marked, labeled, stored, and disposed in accordance with the procedures identified in the HASP.

X. References

Blasland, Bouck & Lee, Inc. (BBL). 2006. *Health and Safety Plan*. Prepared for Isola and Associates, LLP, Former CENCO Refinery, Santa Fe Springs, California (January 2006).

Prepared by: _____ Date: _____

Approval Signatures

Reviewed by: _____ Date: _____
(Technical Expert)

Approved by: _____ Date: _____
(Project Manager)

Standard Operating Procedure: Groundwater Sampling

I. Scope and Application

This Standard Operating Procedure (SOP) describes in detail the requirements for proper sampling of groundwater monitoring and production wells by Blasland, Bouck & Lee, Inc. (BBL) at the Former CENCO Refinery site.

II. Personnel Qualifications

BBL field sampling personnel must have current health and safety training, including 40-hour Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) training, site supervisor training, site-specific training, first aid, and Cardio-Pulmonary Resuscitation (CPR), as needed. In addition, BBL field sampling personnel must conduct all groundwater sampling activities in a manner consistent with this SOP. It is the responsibility of the project manager (PM) to ensure that the activities discussed herein are properly staffed, planned, and executed.

III. Equipment List

The following equipment is required for sampling groundwater monitoring and production wells:

1. **Water Level Meter:** This meter is used to measure the depth to water from the top of the well casing and the total depth of the well by lowering the probe all the way to the bottom.
2. **Organic Vapor Monitor (OVM):** This instrument is used to monitor the air quality in the breathing zone when opening a monitoring well. Organic vapor concentrations are expressed in parts per million (ppm).
3. **Vacuum Truck:** Groundwater sampling is conducted using a vacuum truck to purge the monitoring wells prior to sampling.
4. **Water Quality Meter(s):** The meter(s) measures water quality parameters of the groundwater prior to sampling. The meter(s) must be calibrated daily or prior to use in accordance to manufacturer instructions. Water quality parameters may include pH, temperature, conductivity, turbidity, dissolved oxygen, oxidation-reduction potential, and total dissolved solids. One or more meters may be required to measure the desired water quality parameters.
5. **Five-gallon Buckets:** Buckets are needed to transport fluids used for decontaminating sampling equipment.
6. **Purge Water Collection Container:** Purged groundwater will be collected in this container for field parameters measurement prior to sampling. Container may be a vacuum truck, 55-gallon, drums, or a portable tank.

-
7. **Disposable Bailers:** These are polyethylene sample collection devices used to manually extract groundwater samples from monitoring and production wells. Cotton twine, rather than polyester, will be used to lower bailers down the wells in order to prevent static electricity.
 8. **Sample Cooler:** A sample cooler is used to store the groundwater samples on wet ice at a temperature lower than 6°C until the samples are transferred to the analytical laboratory.
 9. **Well Keys:** In order to gain access to selected monitoring wells, the corresponding lock keys will be obtained prior to sampling.
 10. **Miscellaneous Hardware:** This includes any tools that will be needed to open the groundwater monitoring wells to be sampled, such as screw drivers and adjustable wrenches.

IV. Cautions

- The breathing zone quality must be monitored for organic vapors every time a monitoring or production well is opened. This is essential to avoid exposure to high levels of toxic or combustible vapors.
- Only cotton twine is to be used to lower disposable bailers down the wells to avoid fire hazard due to static.

V. Health and Safety Considerations

All personnel including subcontractors must have read, understand, and abide by all requirements stated in the site *Health and Safety Plan (HASP)* (Blasland, Bouck & Lee, Inc., 2006) for all site activities. All personnel will have completed 40-hour HAZWOPER training and an annual 8-hour refresher taken within the last 12 months as specified under Title 8 California Code of Regulations Section 5192.

In accordance with the BBL HASP, the following PPE is required for use when personnel are performing sampling activities at the monitoring wells.

- hard hat, meeting ANSI Z89, when falling object hazards are present;
- safety glasses with side shields or goggles, meeting ANSI Z87;
- steel-toe work boots, meeting ANSI Z41;
- work gloves, as appropriate;
- nitrile gloves, as appropriate;
- Nomex fire retardant coveralls; and
- full-face, National Institute for Occupational Safety and Health- (NIOSH-) approved, air-purifying respirator with organic vapor cartridges, when high levels of organic vapors are detected.

VI. Procedure

General

- To protect against pinch points and biological hazards, wear leather gloves when opening monitoring well covers.
- To prevent back injury while removing vault covers flush to the ground, use the vault hook.
- To prevent back injury while sampling flush wells, use a chair or equivalent.
- A site map may be required to locate the groundwater monitoring or production wells.

Well Head Inspection

- The well must be securely locked using a cap or lid. The purpose of the cap is for security and to keep out insects, rodents, water or anything else that might enter the well. The cap or lid should fit snuggly and be lockable and must be replaced if otherwise. A slip cap is acceptable but may only be used when there is another means available to lock the well.
- The well casing must be in a good condition, free of large cracks, cuts, holes or other defects. Also note if the casing appears bent or dislocated more than normal.
- A seal, usually made of cement, is placed between the casing and the borehole during well construction to prevent surface water or other materials from migrating down to the aquifer. The seal must be in a good condition and not severely cracked or broken. In some cases the seal may have been extended onto the ground surface around the well to form a pad.
- There should not be any standing water around the well, whether on the ground surface or within the riser or well box.
- The well must have a legible identification marking. The marking can be a tag, label, or painted on.

Sampling Monitoring Wells

- Prior to opening a monitoring well, a full-face respirator must be worn to protect possible organic volatiles. Open well slowly, while holding the OVM meter tip at the head of the well casing to obtain a reading. Record the reading on the Well Measurements Form. Obtain a second reading in the breathing zone, defined as that zone within an 18-inch radius of the face during operations. Record the reading on the Air Monitoring Log. Refer to Chapter 6 of the Former CENCO Refinery project HASP (BBL, 2006) for contaminant action levels.
- The water level below the top of the casing must be measured using a water level meter prior to sampling. The top of well casing is usually marked by black paint. Care must be taken to ensure that the meter probe does not become entangled in the stinger/air assist tubing of the well. Record the level to the nearest hundredth of a foot on the Well Measurements Form and Groundwater Sampling Form. Measure the total depth of the well for all wells not containing free product. Depending on the water level meter utilized, 0.3 inches must be added to the total depth of the water level reading. If a total well

depth measurement cannot be obtained due to limited space within the well, an approximate depth from well construction information sheet can be used to calculate the casing and purge volume.

- The well purge volume must be calculated and recorded next. The well volume factors listed in the table below are used to calculate the bore volume and purge volume.

Well Volume Conversion Factors

Well Casing ID (inches)	Volume Factor (gal/ft)
2.0	0.1632
3.0	0.3672
4.0	0.6528
4.5	0.8260
6.0	1.4690

ID – Inside diameter

Gal/ft – Gallons per foot

$$\text{Casing Volume (C), gal} = (D-L) \times V \quad (1)$$

$$\text{Calculated Purge Volume, gal} = C \times P \quad (2)$$

Where:

D = total depth (ft)

L = depth to water level (ft)

V = Well volume factor (gal/ft)

P = Number of volumes to purge = 3 (Maximum of five if readings are not stable)

With the assistance of a vacuum truck, purge one well volume and collect an initial field parameter measurement and record the required field parameters as stated on the Groundwater Sampling Form (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity). Continue collecting field parameter measurements until a minimum of 3 casing volumes have been purged and pH, temperature, and conductivity are within 10% for 3 consecutive readings. If field parameters have not stabilized after five casing volumes have been purged, document the final measurements and sample. Make note of the lack of stabilization and bring to PM's attention.

- Decontaminate the field parameter probe, turn meters off and close storage cases. Decontaminate the field parameter collection container and store until next use.
- Record water level measurement following purging completion. Proceed to sampling only if the well has recharged to at least 80% of the original static water level.
- Using a disposable bailer tied to a cotton twine, sample the groundwater monitoring well, collect the samples in labeled containers, and store on ice in a cooler. The sample vials and bottles might contain preservatives depending on the analysis method. Record samples on the Chain of Custody (COC) forms.
- Replace the vault lid back on the well and lock.

NOTES

- If the well runs dry before three well casing volumes can be purged or parameters stabilized, the well is considered dewatered and should be allowed to recharge. The well is considered dry if, upon returning 24 hours later, one set of field parameters and the sample cannot be collected. If well is dry, record DRY on the Groundwater Sampling Form. If well recovery rate is $\geq 80\%$ within 24 hours of purging, take 1 set of parameters and required samples. If well recovery rate is $< 80\%$ the following day and there is enough water to sample, then it is acceptable to take one set of parameters and the required samples. Finally, if unable to fill all sample containers due to the well dewatering while sampling, it is permissible to return within 24 hours to finish filling sample containers (this may continue into another 24 to 48 hour period after original purging due to slow recovery rate). Do not re-purge the well in this case.
- The following must be noted in comments on the Groundwater Sampling Form: water level prior to sampling, time of each sampling, and percent recovery rate of the well prior to each sampling.

VII. Waste Management

All equipment utilized in groundwater monitoring and production wells must be thoroughly decontaminated with a non-phosphate detergent solution and rinsed with deionized water (decontamination solution is a 1:3 mixture of detergent and DI water). All generated purged groundwater and decontamination liquids must be transported daily to the onsite wastewater treatment facility for disposal by the end of the sampling event.

VIII. Data Recording and Management

Groundwater sampling activities must be recorded in the field logbook.

IX. Quality Assurance

All purged groundwater and decontamination fluids will be disposed of at an onsite wastewater treatment system. Containerized waste will be disposed of consistent with appropriate procedures as outlined in the Handling and Storage of Investigation-Derived Waste SOP. Used PPE is non-hazardous and will be double-bagged and placed in a municipal refuse dumpster.

All drums shall be properly marked, labeled, stored, and disposed in accordance with the procedures identified in the HASP.

X. References

Blasland, Bouck & Lee, Inc. (BBL). 2006. *Health and Safety Plan*. Prepared for Isola and Associates, LLP, Former CENCO Refinery, Santa Fe Springs, California (January 2006).

Prepared by: _____ Date: _____

Approval Signatures

Reviewed by: _____ Date: _____
(Technical Expert)

Approved by: _____ Date: _____
(Project Manager)

Standard Operating Procedure: Handling and Storage of Investigation-Derived Waste

I. Scope and Application

The objective of this Standard Operating Procedure (SOP) is to describe the procedures to manage investigation derived wastes (IDW) generated during drilling, well sampling, and decontamination procedures. IDW may include soil, groundwater, drilling fluids, decontamination liquids, personal protective equipment (PPE), and disposable sampling materials that may have come in contact with potentially impacted materials. All IDW will be collected at the point of generation and taken to a storage area onsite or to a disposal facility. Soil will be containerized in roll-off bins and DOT-approved drums and analyzed for constituents of concern to evaluate proper disposal methods. Contaminated groundwater, drilling fluids and decontamination liquids will be disposed off daily at an onsite wastewater treatment system and, thus, will not need to be stored. PPE and disposable sampling equipment is considered non-hazardous and will be double-bagged and placed in a municipal refuse dumpster. This SOP describes the necessary equipment, field procedures, materials, and documentation procedures necessary to do so, as well as the handling of these materials up to the time they are properly disposed. The procedures for handling IDW are based on the United States Environmental Protection Agency's *Guide to Management of Investigation Derived Wastes* (USEPA, 1992).

IDW will be managed to ensure the protection of human health and the environment and will comply with all applicable or relevant and appropriate requirements (ARAR). The following Laws and Regulations on Hazardous Waste Management are potential ARAR for this site.

State Laws

- Hazardous Waste Control Law (HWCL) Health and Safety Code §25100-25249;
- Hazardous Substance Account Act (HSAA) Health and Safety Code §25340-25392; and
- Hazardous Waste Treatment Permitting Reform Act (AB 1772) Health and Safety Code §25201.

State Regulations

- Identification and Listing of Hazardous Waste 22 California Code of Regulations (CCR) §§66261-66261.126;
- Requirements for Generators, Generally 22 CCR §§66262.10-66262.70;
- Requirements for Generators, Contingency Plan 22 CCR §§66264.50-66265.56;
- Requirements for Generators, Personnel Training 22 CCR §66265.16;
- Requirements for Transporters 22 CCR §66263; and
- Land Disposal Prohibitions 22 CCR §66268.

Federal Laws

- Resource Conservation and Recovery Act (RCRA) 42 United States Code (USC) §6901-6987;
- Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) 42 USC §9601-9675; and
- Superfund Amendments and Reauthorization Act (SARA).

Pending characterization, IDW will be stored appropriately onsite. Under RCRA, “storage” is defined as “the holding of hazardous waste for a temporary period, at the end of which the hazardous waste is treated, disposed of, or stored elsewhere” (40 Code of Federal Regulations [CFR] 2690.10). The onsite waste staging area will be in a secure and controlled area. Waste characterization involves sending samples for each media to a California-certified laboratory for analysis. Based on the results of previous waste characterization sampling completed at the Site, IDW is assumed to be a RCRA non-hazardous and California non-hazardous industrial waste. IDW will be classified as RCRA hazardous or California hazardous, if analytical results indicate hazardous characteristics.

If IDW exhibits RCRA hazardous characteristics, RCRA requirements will be followed for packaging, labeling, transporting, storing, and recordkeeping, as described in 22 CCR §66262.34. Wastes judged to potentially meet the criteria for hazardous wastes shall be stored in DOT-approved containers. Waste material classified as RCRA non-hazardous may be handled and disposed of as an industrial waste.

If IDW exhibits California hazardous characteristics, Title 22 of the California Code of Regulations will be followed for packaging, labeling, transporting, storing, and recordkeeping, as described in 22 CCR §66262. Waste material classified as California non-hazardous waste may be disposed of as an industrial waste. Blasland, Bouck & Lee, Inc. (BBL) is responsible for waste handling and characterization. BBL will also contract a licensed waste hauler to dispose of hazardous waste.

II. Personnel Qualifications

BBL field personnel must have current health and safety training, including 40-hour Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) training, site supervisor training, site-specific training, first aid, and Cardio-Pulmonary Resuscitation (CPR), as needed. In addition, BBL field personnel must be versed in the relevant SOPs and possess the required skills and experience necessary to successfully complete the desired field work.

III. Equipment List

- Appropriate personal protection equipment (PPE) as specified in the *Health and Safety Plan (HASP)* (Blasland, Bouck & Lee, Inc., 2006);
- 55-gallon steel drums, DOT 1A2 or equivalent;
- ¾-inch socket wrench;
- Hammer;
- Leather gloves;

- Drum dolly;
- Appropriate drum and bin labels (outdoor waterproof self-adhesive);
- DOT-approved roll-off bins;
- Indelible ink and/or permanent marking pens; and
- Appropriate sample containers, labels, and forms.

IV. Cautions

1. Filled drums can be very heavy; always use appropriate moving techniques and equipment.
2. Similar media must be stored in the same drums to aid in sample analysis and disposal.
3. Drum lids must be secured to prevent rainwater from entering the drums.
4. Drums containing solid material may not contain any free liquids.
5. All drums must be in good condition to prevent potential leakage and facilitate subsequent disposal. Inspect the drums for dents and rust, and verify the drum has a secure lid prior to use.

V. Health and Safety Considerations

1. Appropriate PPE must be worn by all field personnel within the designated work area, as stated in the project HASP.
2. Air must be periodically monitored during drilling and sampling activities, as required in the HASP.
3. If excavating in potentially hazardous areas is possible, contingency plans should be developed to address the potential for encountering gross contamination or non-aqueous phase liquids (NAPL).

VI. Procedures

Impacted soil generated from drilling and sampling activities will be transported in a hopper to onsite roll-off bins for storage or transferred to a 55-gallon drum. Every container must be properly labeled and covered to prevent rainwater from entering and to minimize the release of the contaminants to the surroundings. Waste materials, such as broken sample bottles or equipment containers and wrappings, will not be placed in bins or drums with soil or water.

Waste Management

Waste management efforts will focus on the minimization of IDW during the project activities. For example, aqueous-based cleaners instead of solvent-based ones must be used for the decontamination of equipment; traffic between exclusion and support zones must be minimized; and drilling methods and sampling techniques that generate relatively less waste must be adopted.

Waste Container Labeling

Outdoor, waterproof, self-adhesive labels must be used to identify drums and bins containing soil cuttings. IDW containers will be labeled as follows:

- Appropriate California waste characterization label (Testing In Progress, Hazardous, or Non-Hazardous);
- Waste generator's name (BBL);
- Project name (CENCO Former Refinery);
- Project address (12345 Lakeland Road, Santa Fe Springs, CA);
- Name and telephone number of BBL Field Manager;
- Accumulation start date; and
- Container number.

Drilling Soil Cuttings and Muds

Soil cuttings are solid to semi-solid soils generated during trenching activities, subsurface soil sampling, or installation of monitoring wells. Since direct push, hollow stem auger, and sonic rotary drilling are the techniques of choice in this project, no drilling fluids or "muds" will be used to remove soil cuttings.

Soil cuttings will be stored in 55-gallon steel drums or roll-off bins, which will be kept closed during storage and maintained in good condition in accordance with the *Guide to Management of Investigation-Derived Wastes* (USEPA, 1992).

Decontamination Solutions

Decontamination solutions are generated during decontamination of PPE and sampling equipment. Decontamination solutions may range from non-phosphate detergents (e.g. Liqui-Nox) to decontaminate small field sampling equipment to steam cleaning rinsate used to wash heavy field equipment. These solutions will be disposed of at an onsite wastewater treatment system.

Disposable Equipment

Disposable equipment includes PPE (Tyvek⁷ coveralls, gloves, booties, and APR cartridges) and disposable sampling equipment such as disposable bailers. These materials are considered non-hazardous and will be double-bagged and disposed of in a municipal refuse dumpster.

Purge Water

Purge water includes groundwater generated during well development, groundwater sampling, or aquifer testing. The volume of groundwater generated will dictate the appropriate storage procedure. Monitoring well development and groundwater sampling may generate three well volumes of groundwater or more. This volume

will be temporarily stored in vacuum truck (utilized to purge the wells) or waste containers (portable tanks or drums) prior to disposal at the onsite wastewater treatment system.

VII. Data Recording and Management

Waste characterization sample handling, packing, and shipping procedures will be documented in the field logbook. Copies of the chain-of-custody forms will be maintained in the project file. Following waste characterization, BBL will initiate disposal at the appropriate waste disposal facility.

VIII. Quality Assurance

The chain-of-custody and sample labels for waste characterization samples will be filled out in accordance with the *Additional Site Investigation Work Plan* (Haley & Aldrich, Inc., 2005).

IX. References

Blasland, Bouck & Lee, Inc. (BBL). 2006. *Health and Safety Plan*. Prepared for Isola and Associates, LLP, Former CENCO Refinery, Santa Fe Springs, California (January 2006).

California Environmental Protection Agency (CalEPA). 1995. *Representative Sampling of Groundwater for Hazardous Substances*. Guidance Manual for Ground Water Investigations (July 1995).

Haley & Aldrich, Inc. 2005. *Additional Site Investigation Work Plan, CENCO Refining Company* (May 9, 2005).

United States Environmental Protection Agency (USEPA). 1992. *Guide to Management of Investigation-Derived Wastes*. Office of Remedial and Emergency Response. Hazardous Site Control Division (January 1992).

Appendix B

Groundwater Monitoring Field Forms



WELL MEASUREMENTS FORM

Site Name:

FORMER CENCO REFINERY

Date:

02-13-06

Client:

ISOLA & ASSOCIATES

Recorded By:

MEGAN SMOLESKI + MAHER ZEIN

Project Location:

SANTA FE SPRINGS, CA

Weather:

Sunny

WELL ID	DEPTH TO WATER	TOTAL DEPTH	DEPTH TO PRODUCT	PRODUCT THICKNESS	PID (ppm)	LEL (%)	H ₂ S (ppm)	O ₂ (%)	COMMENTS
MW-600A									
MW-601A	Dry	89.65	NA	NA	229 +02	0	5	20.4	
MW-603	88.49	96.90	NA	NA	0.0	0	0	20.9	
MW-604	DRY	103.25	NA	NA	1.2	0	0	20.9	
MW-605	88.91	94.00	NA	NA	0.0	0	0	17.8	
MW-606	91.98	99.30	NA	NA	0.0	0	0	7.9	
MW-607	103.34	106.61	NA	NA	15.0	31	0	17.0	
W-7	85.63	NM	NA	NA	0.0	0	0	20.9	TOTAL DEPTH NM; DEPTH > 200' OF TUBE
W-8	69.11	NM	NA	NA	0.0	0	0	20.9	
MW-101	DRY	90.20	NA	NA	161	0	0	18.6	
MW-103	DRY	94.38	NA	NA	0.0	0	0	20.9	
MW-105	89.95	100.10	NA	NA	22.2	>100	0	1.8	
MW-104A	89.66	98.05	NA	NA	0.0	0	0	20.9	
MW-201	91.80	93.69	NA	NA	278	>100	3	13.8	
MW-202	DRY	92.64	NA	NA	168	45	0	19.9	

NA = NOT APPLICABLE

NM = NOT MEASURED

WELL MEASUREMENTS FORM

Site Name: FORMER CENCO REFINERY

Date: 02-13-06

Client: ISOLA & ASSOC., INC.

Recorded By: MEGAN SMOLEY + MAHER BEIN

Project Location: SANTA FE SPRINGS, CA

Weather: SUNNY, HOT

WELL ID	DEPTH TO WATER	TOTAL DEPTH	DEPTH TO PRODUCT	PRODUCT THICKNESS	PID (ppm)	LEL (%)	H ₂ S (ppm)	O ₂ (%)	COMMENTS
MW-204	95.24	96.72	NA	NA	0.0	0	0	20.9	CASING CUT DURING PREVIOUS SHOT DO NOT USE IN GUL CONTAMINATED WITH CASING IS REMOVED
MW-205	90.92	98.32	NA	NA	58.3	>100	1	13.8	
MW-504	93.80	95.95	NA	NA	159	>100	35	0.2	
MW-501A	92.60 (MS) DRY	92.60 (MS) DRY	NA	NA	101	>100	29	0.3	
MW-502	93.40	100.56	NA	NA	158	>100	5	0.2	
MW-503B	93.79	108.79	NA	NA	186	>100	24	0.3	
W-1	102.60'	129.61	NA	NA	29.3	>100	1	4.1	
W-4	103.91'	129.54'	NA	NA	118	4	0	11.0	
W-3A	102.78	104.60 (MS) 102.22 (MS)	NA	NA	162	>100	0	0.3	
2/14/06 BN1	99.55	NM	98.89	0.66	141	>100	0	5.2	TD NOT MEASURED, DUE TO PRODUCT IN WELL
← MW 6-2-A	91.15	NM	87.42	3.23	125	0	14 (MS)	0.2	



WELL MEASUREMENTS FORM

Site Name:

Former Cenex Refinery

Date:

02.16.06

Client:

Isola & Associates

Recorded By:

Mark Zein

Project Location:

Santa Fe Springs, CA

Weather:

Partly Cloudy, Cool

WELL ID	DEPTH TO WATER	TOTAL DEPTH	DEPTH TO PRODUCT	PRODUCT THICKNESS	PID (ppm)	LEL (%)	H ₂ S (ppm)	O ₂ (%)	COMMENTS
W-3A	102.88	104.59	NA	NA	0.4	0	0	20.9	
MW-504	93.92	95.99	NA	NA	0	0	0	20.9	

GROUNDWATER SAMPLING FORM

Site Name : Former Cerco Refinery
 Project Number : 54202.001
 Recorded by : Maher Zein

Well Number MW-104 A
 Well Type: Monitor Extraction Other:
 Date: 02.15.06 Time: 0810

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 98.45

Water Level Depth (WL in feet BTOC) : 89.66

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Truck

PURGE VOLUME CALCULATION

$$\left(\frac{TD \text{ (feet)}}{WL \text{ (feet)}} - 1 \right) \times \frac{D^2}{\pi} \times \frac{0.0408}{\# \text{ Vols}} = \frac{5.45}{\text{Calculated Purge Volume}} \text{ gallons}$$

$$8.39 \times 0.65$$

VOLUME GENERATED

18 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

Average = 0.75 gpm

CONTROLLER SETTING

FIELD PARAMETER MEASUREMENT

Time	Volume (gallons)	Temp $^{\circ}\text{F}$ $^{\circ}\text{C}$	pH	EC (ms/cm or $\mu\text{s}/\text{cm}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
0825	6	20.0	8.85	0.261	5.30	176	>1000	
0832	12	18.1	8.81	0.257	7.06	193	>1000	
0849	18	16.4	8.79	0.256	7.69	219	108	

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) :

Very turbid

Discharge Water Disposal: At WWT system outside

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: ~910

Depth to Water : 40.55 ft

MW-104A-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cerco Refinery
 Project Number : 54202.001
 Recorded by : Mahr Zein

Well Number MW - 105
 Well Type Monitor Extraction Other:
 Date: 02.15.06 Time: 1031

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 102.10

Water Level Depth (WL in feet BTOC): 89.95

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Truck

PURGE VOLUME CALCULATION

$$\left(\frac{TD \text{ (feet)}}{WL \text{ (feet)}} - 1 \right) \times \frac{D^2}{D \text{ (inches)}} \times \frac{0.0408}{\# \text{ Vols}} = \frac{6.60}{\text{Calculated Purge Volume}}$$

$$10.15 \times 0.65$$

VOLUME GENERATED

21 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

Average = 2.0 gpm

FIELD PARAMETER MEASUREMENT

S/m

Time	Volume (gallons)	Temp $^{\circ}\text{F}$ $^{\circ}\text{C}$	pH	EC ($\mu\text{s}/\text{cm}$ or mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
1046	7	20.4	8.71	0.225	5.90	-89	254	
1050	14	20.4	8.74	0.222	5.80	-48	565	
1053	21	20.6	8.71	0.221	6.03	-112	173	

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) :

Discharge Water Disposal: At WWT system onsite

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 105

Depth to Water : 89.99 ft.

MW-105-0206 and MW-105-D-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cenex Refinery
 Project Number : 54202.001
 Recorded by : Maher Zein

Well Number MW-201
 Well Type Monitor Extraction Other:
 Date: 02.15.06 Time: 1135

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC), 93.69

Water Level Depth (WL in feet BTOC) : 91.80

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other - Type Vacuum Truck

PURGE VOLUME CALCULATION

$$(\frac{TD \text{ (feet)}}{WL \text{ (feet)}} - 1) \times \frac{D^2}{4} \times \frac{\pi}{4} \times 0.0408 = \frac{1.23}{\text{Calculated Purge Volume}} \text{ gallons}$$

1.89 \times 0.65

VOLUME GENERATED

6 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

FIELD PARAMETER MEASUREMENT

Average = 0.8 gpm

CONTROLLER SETTING

Time	Volume (gallons)	Temp 75°C	pH	EC ($\mu\text{s}/\text{cm}$ or ms/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
1143	2	20.6	8.77	0.218	6.28	126	>1000	
1146	4	21.2	8.78	0.216	5.62	79	>1000	
1148	6	21.4	8.78	0.217	5.59	35	317	

S/m

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) :

Discharge Water Disposal: At WWT system onsite

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 120s

Depth to Water : 91.76 ft.

MW-201-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cerco Refinery
 Project Number : 54202.001
 Recorded by : Maher Zein

Well Number MW - 204
 Well Type: Monitor Extraction Other:
 Date: 02.15.06 Time: 0723

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 96.72

Water Level Depth (WL in feet BTOC) : 95.24

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Truck

PURGE VOLUME CALCULATION

$$\left(\frac{TD \text{ (feet)}}{WL \text{ (feet)}} - 1 \right) \times \frac{D^2}{\text{# Vols}} \times 0.0408 = \frac{0.96}{\text{Calculated Purge Volume}} \text{ gallons}$$

VOLUME GENERATED

3 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

Average 2.067 gpm

CONTROLLER SETTING

FIELD PARAMETER MEASUREMENT

S/m

Time	Volume (gallons)	Temp 78°C	pH	EC (ms/cm or $\mu\text{s}/\text{cm}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
0733	1	19.8	8.90	0.225	5.89	173	80.7	1
0735	2	21.3	8.87	0.227	5.11	150	46.6	1
0736	3	22.2	8.86	0.227	4.93	129	31.0	1

Observations During Puring (Turbidity, Color, Odor, Well Condition etc):

Discharge Water Disposal: At WWT system write.

Very little water in well.

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 0745

Depth to Water : 95.22 ft

MW-204-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cenex Refinery
 Project Number : 54202.001
 Recorded by : Maher Zein

Well Number MW-205
 Well Type Monitor Extraction Other:
 Date: 02.15.06 Time: 0937

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

PURGE METHOD

2-inch 4-inch 6-inch Other _____

Bailer - Type _____

Total Depth of Casing (TD in feet BTOC) 98.32

Submersible Centrifugal Bladder

Water Level Depth (WL in feet BTOC) 90.92

Other - Type Vacuum Truck

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE VOLUME CALCULATION

$$\left(\frac{\text{TD (feet)}}{\text{WL (feet)}} \right) \times \frac{2}{\text{D (Inches)}} \times \frac{1}{\# \text{ Vols}} \times 0.0408 = \frac{4.81}{\text{Calculated Purge Volume}} \text{ gallons}$$

$$7.4 \times 0.65$$

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

FIELD PARAMETER MEASUREMENT

Average 2 2.09 gpm

Time	Volume (gallons)	Temp $^{\circ}\text{F}$ $^{\circ}\text{C}$	pH	EC (ms/cm or $\mu\text{s}/\text{cm}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
0948	5	20.1	8.73	0.217	6.26	-42	36	
0951	10	20.8	8.78	0.218	6.22	-44	12.6	
0953	15	20.2	8.78	0.220	6.64	-62	20.6	

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) :

Discharge Water Disposal: At WWT system outside.

WELL SAMPLING

SAMPLING METHOD

MW-205-0206

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 1005

Depth to Water : 90.91 ft.

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cenex Refinery
 Project Number : 54202-21
 Recorded by : Maher Zahr

Well Number MW-502
 Well Type: Monitor Extraction Other: _____
 Date: 02.14.06 Time: 0845

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 122.56

Water Level Depth (WL in feet BTOC) : 93.4

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Truck

PURGE VOLUME CALCULATION

$$\left(\frac{TD \text{ (feet)}}{WL \text{ (feet)}} \right) \times \frac{2}{D \text{ (inches)}} \times \frac{X}{\# \text{ Vols}} \times 0.0408 = \frac{4.65}{\text{Calculated Purge Volume}} \text{ gallons}$$

$$7.16 \times 0.65$$

VOLUME GENERATED

15 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

FIELD PARAMETER MEASUREMENT

Average 0.77 gal/min.

S/m

Time	Volume (gallons)	Temp (F/C)	pH	EC (μs/cm or μs/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
0858	5	19.9	8.66	0.231	5.25	1	148	1
0905	10	19.8	8.63	0.236	5.44	43	85.0	
0911	15	20.3	8.65	0.238	5.24	-43	48.3	
1	1	1	1	1	1	1	1	
1	1	1	1	1	1	1	1	

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) :

Discharge Water Disposal: At WWT system onsite Initially, there was odor but disappeared

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 0921

Depth to Water : 93.34 ft

MW-502-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cenex Refinery
 Project Number : 542-2-21
 Recorded by : Mader Zein

Well Number MW-5-3B
 Well Type Monitor Extraction Other:
 Date: 02.14.06 Time: 0725

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 128.79

Water Level Depth (WL in feet BTOC) : 93.79

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Truck

PURGE VOLUME CALCULATION

$$\left(\frac{TD \text{ (feet)}}{WL \text{ (feet)}} \right) \times \frac{^2X}{D \text{ (inches)}} \times 0.0408 = \frac{9.75}{\text{Calculated Purge Volume}} \text{ gallons}$$

15 \times 0.65

VOLUME GENERATED

30 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

FIELD PARAMETER MEASUREMENT

Average 2.5 g/min.

Time	Volume (gallons)	Temp 72°C	pH	EC (mS/cm or $\mu\text{s}/\text{cm}$)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
0743	10	20.0	8.41	0.205	4.60	-94	62.1	
0746	20	20.5	8.40	0.201	5.09	-116	31.4	
0751	30	20.3	8.43	0.202	4.79	-116	11.0	
1	1	1	1	1	1	1	1	

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) :

Discharge Water Disposal: At WWF system onsite

Strong odor descended at well

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type: Disposable

Sampling Time (80%) Recharge: 0759

Depth to Water: 93.80

MW-503B-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cisco Refinery
 Project Number : 54202.001
 Recorded by : Maher Zein

Well Number MW-504
 Well Type Monitor Extraction Other:
 Date: 02.15.96 Time: 0830
(MZ)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 95.99

Water Level Depth (WL in feet BTOC) 93.92

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other X

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Truck

PURGE VOLUME CALCULATION

$$\left(\frac{TD \text{ (feet)}}{WL \text{ (feet)}} - 1 \right) \times \frac{D^2}{D \text{ (inches)}} \times 0.0408 = \frac{1.35}{\text{Calculated Purge Volume}} \text{ gallons}$$

VOLUME GENERATED

1.35 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

Average 2 gpm

CONTROLLER SETTING

FIELD PARAMETER MEASUREMENT

S/m

Time	Volume (gallons)	Temp (F C)	pH	EC (ms/cm or μ s/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
<u>1</u>	<u>2</u>	<u>70</u> <u>21</u>	<u>7.5</u>	<u>1000</u>	<u>0.5</u>	<u>-200</u>	<u>10</u>	<u>93.92</u>
<u>2</u>	<u>4</u>							
<u>3</u>	<u>6</u>							

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) :

Discharge Water Disposal: At WWT system outlet

Well drying up rapidly.

WELL SAMPLING

SAMPLING METHOD

MW-504-0206

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 1120

Depth to Water: 93.92 ft

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Census Repository
 Project Number : 54202-021
 Recorded by : Maler Zehn

Well Number MW-603
 Well Type: Monitor Extraction Other:
 Date: 02.14.06 Time: 1047

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 96.95

Water Level Depth (WL in feet BTOC) : 88.49

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other

3 (increased to 4)

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other - Type Vacuum Tank

PURGE VOLUME CALCULATION

$$\left(\frac{\text{TD (feet)}}{\text{WL (feet)}} - 1 \right) \times \frac{2}{\text{D (inches)}} \times \text{# Vols} \times 0.0408 = \frac{5.47}{\text{Calculated Purge Volume}} \text{ gallons}$$

8.41 x 0.15

VOLUME GENERATED

24 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

CONTROLLER SETTING

Average 2.15 gal/min.

FIELD PARAMETER MEASUREMENT

S/m

Time	Volume (gallons)	Temp °F/°C	pH	EC (mS/cm or µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
1102	6	22.3	8.57	0.207	5.09	201	135	
1106	12	21.7	8.48	0.209	5.90	216	142	
1110	18	22.0	8.34	0.211	4.74	228	162	
1114	24	21.8	8.34	0.213	5.57	224	31	
1	1	1	1	1	1	1	1	

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) :

Discharge Water Disposal: At WWT system inside.

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 1122

Depth to Water: 87.41 ft

MW-603-0206

Sample No.	Number of Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Coms Refining
 Project Number : 54202.021
 Recorded by : Maher Zehn

Well Number MW-605
 Well Type: Monitor Extraction Other:
 Date: 02.14.06 Time: 1140

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 94.50

Water Level Depth (WL in feet BTOC) 88.91

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Tank

PURGE VOLUME CALCULATION

$$\left(\frac{\text{TD (feet)}}{\text{WL (feet)}} \right) \times \frac{2}{\text{D (inches)}} \times \frac{1}{\# \text{ Vols}} \times 0.0408 = \frac{3.31}{\text{Calculated Purge Volume}}$$

VOLUME GENERATED

12 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

FIELD PARAMETER MEASUREMENT

Average 2.135 gal/min.

Time	Volume (gallons)	Temp (°F/C)	pH	EC (mS/cm or µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
1154	4	21.3	8.43	0.234	4.19	208	905	1
1157	8	21.8	8.43	0.234	4.88	226	520	1
1200	12	21.3	8.41	0.235	4.84	235	216	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) : _____

Discharge Water Disposal: at WWT system outside

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Submersible

Sampling Time (80%) Recharge: 88.89 min

Depth to Water: 1210

MW-605-0206 and MW-605-D-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Census Refinery
 Project Number : 54202.001
 Recorded by : Mahan Zeh

Well Number MW-606
 Well Type: Monitor Extraction Other: _____
 Date: 02/14/06 Time: 1335

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 99.3

Water Level Depth (WL in feet BTOC) : 91.98

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Truck

PURGE VOLUME CALCULATION

$$(\frac{TD \text{ (feet)}}{WL \text{ (feet)}} - 1) \times \frac{D^2}{4} \times \frac{\pi}{4} \times 0.0408 = \frac{4.76}{\text{Calculated Purge Volume}} \text{ gallons}$$

VOLUME GENERATED

15 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

CONTROLLER SETTING

FIELD PARAMETER MEASUREMENT

Average 21.11 gpm/min.

Time	Volume (gallons)	Temp (°C)	pH	EC (mS/cm or µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
1344	5	21.7	8.66	0.204	5.06	229	786	
1348	10	20.7	8.77	0.208	5.11	235	247	
1353	15	21.4	8.76	0.208	5.22	240	207	

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) :

Discharge Water Disposal: At WWT system inside CHZ

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 1402

Depth to Water: 91.94 ft

MW-606-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Canco Refinery
 Project Number : 54202.001
 Recorded by : Mahar Zehra

Well Number MW-607
 Well Type: Monitor Extraction Other:
 Date: 02.14.01 Time: 1450

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 106.61

Water Level Depth (WL in feet BTOC): 103.34

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3 (in round to 4).

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Truck

PURGE VOLUME CALCULATION

$$\left(\frac{TD \text{ (feet)}}{WL \text{ (feet)}} - 1 \right) \times \frac{D^2}{\pi} \times \frac{0.0408}{\# \text{ Vols}} = \frac{2.13}{\text{Calculated Purge Volume}} \text{ gallons}$$

3.27 x 0.65

VOLUME GENERATED

12 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

FIELD PARAMETER MEASUREMENT

Average 21 gal/min.

Time	Volume (gallons)	Temp (F/C)	pH	EC (mS/cm or µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
1457	3	20.4	8.47	0.262	4.69	-106	755	
1500	6	21.6	8.37	0.262	5.94	-139	269	
1503	9	21.6	8.42	0.256	5.02	-129	143	
1506	12	21.5	8.44	0.252	4.51	-126	102	
	1	1	1	1	1	1	1	

Observations During Purging (Turbidity, Color, Odor, Well Condition etc): _____

Discharge Water Disposal: At WWTP system waste, MW

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 1515

Depth to Water : 103.24 ft.

MW-607-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cawco Refinery
 Project Number : 54202.001
 Recorded by : Maher Zein

Well Number W-1
 Well Type Monitor Extraction Other:
 Date: 02.15.06 Time: 1250

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 129.61

Water Level Depth (WL in feet BTOC) 102.60

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other - Type Vacuum Truck

PURGE VOLUME CALCULATION

$$\left(\frac{TD \text{ (feet)}}{WL \text{ (feet)}} - 1 \right) \times \frac{2}{D \text{ (inches)}} \times \frac{1}{\# \text{ Vols}} \times 0.0408 = \frac{17.56}{\text{Calculated Purge Volume}} \text{ gallons}$$

27.01 x 0.65

VOLUME GENERATED

54 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

FIELD PARAMETER MEASUREMENT

Average 22.12 gpm

CONTROLLER SETTING

Time	Volume (gallons)	Temp <u>71.0</u> C	pH	EC (mS/cm or <u>µs/cm</u>)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
1306	18	71.0	8.63	0.301	5.28	54	45.1	1
1314	36	20.9	8.60	0.302	5.65	39	28.4	1
1323	54	21.8	8.60	0.304	5.06	19	38.2	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) :

Discharge Water Disposal: At WWT system onsite

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 1330

Depth to Water : 102.88 ft.

W-1-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cenex Refinery
 Project Number : 54202.001
 Recorded by : Maher Zein

Well Number W-3A
 Well Type Monitor Extraction Other:
 Date: 02.15.06 Time: 0715
(HZ)

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 104.59

Water Level Depth (WL in feet BTOC) : 102.88

Number Of Well Volumes to be Purged (# Vols)

4 5

10

Other

3 (increased to 5)

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Truck

PURGE VOLUME CALCULATION

$$(\frac{TD \text{ (feet)}}{WL \text{ (feet)}}) \times \frac{2}{D \text{ (inches)}} \times \frac{X}{\# \text{ Vols}} \times 0.0408 = \frac{1.11}{\text{Calculated Purge Volume}} \text{ gallons}$$

VOLUME GENERATED

10 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Average 2 gpm

CONTROLLER SETTING

FIELD PARAMETER MEASUREMENT

S/m

Time	Volume (gallons)	Temp (F) C	pH	EC (mS/cm or µm/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
0732	2	15.7	8.90	0.318	7.10	195	>1000	
0734	4	16.0	8.86	0.308	4.74	138	>1000	
0738	6	16.7	8.79	0.311	5.82	112	>1000	
0744	8	16.1	8.71	0.311	6.14	67	>1000	
0747	10	16.9	8.71	0.312	5.06	59	472	

- Samples had sheen as well.
- Sheen
- VOCs smell.
- Rainbow colors on surface of water → VOCs.
- Very turbid.

Observations During Puring (Turbidity, Color, Odor, Well Condition etc):
 Discharge Water Disposal: At WWT System outlet

- Puring was very slow.

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 0755

Depth to Water : 102.97 ft

W-3A - 0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cenex Refinery
 Project Number : 54202.001
 Recorded by : Mother Zein

Well Number W-4
 Well Type Monitor Extraction Other:
 Date: 02.15.06 Time: 1350

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____

2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) 129.54

Water Level Depth (WL in feet BTOC) 103.91

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other 3

PURGE METHOD

Bailer - Type _____

Submersible Centrifugal Bladder

Other -Type Vacuum Truck

PURGE VOLUME CALCULATION

$$(\frac{TD \text{ (feet)}}{WL \text{ (feet)}}) \times \frac{2}{D \text{ (Inches)}} \times \frac{X}{\# \text{ Vols}} \times 0.0408 = \frac{16.66}{\text{Calculated Purge Volume}} \text{ gallons}$$

$$25.63 \times 0.65$$

VOLUME GENERATED

51 gallons

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

FIELD PARAMETER MEASUREMENT

Average = 0.94 gpm

CONTROLLER SETTING

Time	Volume (gallons)	Temp (F) C	pH	EC (mS/cm or μ s/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level
1404	17	20.8	8.54	0.251	5.84	80	136	
1418	34	20.1	8.71	0.252	6.10	122	230	
1443	51	19.8	8.76	0.261	6.32	149	83.5	

Also, took long period
of time for recharge (25 min.)
Purging was slow relatively.

Observations During Purging (Turbidity, Color, Odor, Well Condition etc):
 Discharge Water Disposal: At WWT system onsite.

WELL SAMPLING

SAMPLING METHOD

W-4-0206

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 1510

Depth to Water : 108.97 ft.

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cenex Refining
 Project Number : 54202.001
 Recorded by : Mohar Zein

Well Number W-7
 Well Type: Monitor Extraction Other: _____
 Date: 02.16.06 Time: 0955

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) 4
 2-inch 4-inch 6-inch Other 4

Total Depth of Casing (TD in feet BTOC) Not Measured

Water Level Depth (WL in feet BTOC) 85.63

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other NA

PURGE METHOD

Bailer Type Disposable

Submersible Centrifugal Bladder

Other -Type _____

Not purged since it is
a deep production well.

PURGE VOLUME CALCULATION

(TD (feet)) X WL (feet) X D (Inches) X # Vols X 0.0408 = Calculated Purge Volume gallons gallons

VOLUME GENERATED

NA

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

CONTROLLER SETTING

FIELD PARAMETER MEASUREMENT

Time	Volume (gallons)	Temp (F)	pH	EC (ms/cm or μ s/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) : NA

Discharge Water Disposal: NA - Not Applicable

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: NA 0955

Depth to Water: 85.63 m. bgs.

W-7-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

GROUNDWATER SAMPLING FORM

Site Name : Former Cenw Refinery
 Project Number : 54202.001
 Recorded by : Maher Zain

Well Number W-8
 Well Type: Monitor Extraction Other:
 Date: 2.16.06 Time: 1100

WELL PURGING

PURGE VOLUME

Casing Diameter (D in inches) _____
 2-inch 4-inch 6-inch Other _____

Total Depth of Casing (TD in feet BTOC) Not Measured

Water Level Depth (WL in feet BTOC) : 69.11

Number Of Well Volumes to be Purged (# Vols)

4 5 10 Other NA

PURGE METHOD

Bailer - Type Disposable
 Submersible Centrifugal Bladder
 Other - Type _____

Not purged since it's a deep production well.

PURGE VOLUME CALCULATION

$$(\frac{TD \text{ (feet)}}{WL \text{ (feet)}}) \times \frac{2 \times}{D \text{ (inches)}} \times \frac{\# \text{ Vols}}{0.0408} = \frac{NA}{Calculated Purge Volume} \text{ gallons} \quad \frac{NA}{gallons}$$

PURGE TIME

Start _____ Stop _____ Elapsed _____

PURGE RATE

Initial _____ gpm Final _____ gpm Initial _____ Hz Final _____ Hz

CONTROLLER SETTING

FIELD PARAMETER MEASUREMENT

Time	Volume (gallons)	Temp (F)	pH	EC (ms/cm or μ s/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Water Level

Observations During Purging (Turbidity, Color, Odor, Well Condition etc) : NA

Discharge Water Disposal: NA NA Applied

NA

WELL SAMPLING

SAMPLING METHOD

Sample at 80% (Minimum recharge)

(Sample Turbidity < 5 NTU)

Bailer Type : Disposable

Sampling Time (80%) Recharge: 100

Depth to Water: 69.11 4 bgs.

W-8-0206

Sample No.	Number Containers	Container Type	Lab	Analysis	Preservatives

Appendix C

Laboratory Analytical Data



ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Blasland Bouck & Lee (9343) LAB REQUEST 164470
ATTN: Jennifer Wiley
2600 Michelson Dr. Suite 830 REPORTED 02/23/2006
Irvine, CA 92612-6520 RECEIVED 02/14/2006

PROJECT Former Cenco Refinery #54202.001

SUBMITTER Client

COMMENTS * Matrix Interference.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
687861	TB-021406
687862	MW-503B-0206
687863	MW-502-0206
687864	MW-603-0206
687865	MW-605-0206
687866	MW-605-0206-D
687867	MW-606-0206
687868	MW-607-0206
687869	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,



Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
*Chemical
Microbiological
Environmental*

Order #: 687861

Client Sample ID: TB-021406

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 09:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
TPH-DHS	Gasoline	ND	1	50	2.9	ug/L	02/15/06 SU
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	87			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/17/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/17/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/17/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/17/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/17/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/17/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/17/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/17/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/17/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/17/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/17/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/17/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/17/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/17/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/17/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/17/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/17/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/17/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/17/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/17/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/17/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	1	10	0.62	ug/L	02/17/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/17/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/17/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/17/06 LB
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/17/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/17/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/17/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687861

Client Sample ID: TB-021406

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 09:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/17/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	Bromodichloromethane	ND	1	5	0.42	ug/L	02/17/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/17/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/17/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/17/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/17/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/17/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/17/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/17/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/17/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/17/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/17/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/17/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/17/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/17/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/17/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/17/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/17/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/17/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/17/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/17/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/17/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/17/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/17/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/17/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/17/06 LB
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/17/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/17/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/17/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/17/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687861

Client Sample ID: TB-021406

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 09:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/17/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/17/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/17/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/17/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/17/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/17/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/17/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/17/06 LB
Surrogates						Units	Control Limits
8260B	Sur1 - Dibromofluoromethane	99				%	70 - 135
8260B	Sur2 - 1,2-Dichloroethane-d4	101				%	70 - 135
8260B	Sur3 - Toluene-d8	96				%	70 - 135
8260B	Sur4 - p-Bromofluorobenzene	103				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 687862

Client Sample ID: MW-503B-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 07:59

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2320B	Bicarbonate	869	1	5.0	1.0	mg/L	02/16/06 NA
2320B	Carbonate	ND	1	5.0	0.7	mg/L	02/16/06 NA
3500FED	Ferrous Iron	ND	1	0.10	0.07	mg/L	02/15/06 HK
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/15/06 BGS
2320B	Hydroxide	ND	1	5.0	0.3	mg/L	02/16/06 NA
300.0	Nitrate (as NO ₃)	ND	1	0.44	0.04	mg/L	02/15/06 QN
300.0	Sulfate	36.5	1	1.0	0.23	mg/L	02/15/06 QN
2320B	Total Alkalinity as CaCO ₃	713	1	5.0	1.8	mg/L	02/16/06 NA
TPH-DHS	Gasoline	5450	10	500.0	2.9	ug/L	02/16/06 SU
8015B	Methane	0.581	1	0.005	0.005	mg/L	02/16/06 LT
Surrogates					Units	Control Limits	
TPH-DHS	a,a,a-Trifluorotoluene	134			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	10	50.0	0.37	ug/L	02/18/06 LB
8260B	1,1,1-Trichloroethane	ND	10	50.0	0.20	ug/L	02/18/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	10	50.0	0.46	ug/L	02/18/06 LB
8260B	1,1,2-Trichloroethane	ND	10	50.0	0.31	ug/L	02/18/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	10	50.0	1.3	ug/L	02/18/06 LB
8260B	1,1-Dichloroethane	ND	10	50.0	0.20	ug/L	02/18/06 LB
8260B	1,1-Dichloroethene	ND	10	50.0	0.22	ug/L	02/18/06 LB
8260B	1,1-Dichloropropene	ND	10	50.0	0.29	ug/L	02/18/06 LB
8260B	1,2,3-Trichlorobenzene	ND	10	50.0	0.60	ug/L	02/18/06 LB
8260B	1,2,3-Trichloropropane	ND	10	50.0	0.28	ug/L	02/18/06 LB
8260B	1,2,4-Trichlorobenzene	ND	10	50.0	0.54	ug/L	02/18/06 LB
8260B	1,2,4-Trimethylbenzene	ND	10	50.0	1.6	ug/L	02/18/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	10	50.0	0.74	ug/L	02/18/06 LB
8260B	1,2-Dibromoethane	ND	10	50.0	0.46	ug/L	02/18/06 LB
8260B	1,2-Dichlorobenzene	ND	10	50.0	0.23	ug/L	02/18/06 LB
8260B	1,2-Dichloroethane	ND	10	50.0	0.20	ug/L	02/18/06 LB
8260B	1,2-Dichloropropane	ND	10	50.0	1.3	ug/L	02/18/06 LB
8260B	1,3,5-Trimethylbenzene	ND	10	50.0	0.72	ug/L	02/18/06 LB
8260B	1,3-Dichlorobenzene	ND	10	50.0	1.1	ug/L	02/18/06 LB
8260B	1,3-Dichloropropane	ND	10	50.0	0.50	ug/L	02/18/06 LB
8260B	1,4-Dichlorobenzene	ND	10	50.0	0.25	ug/L	02/18/06 LB
8260B	1-Chlorohexane	ND	10	50.0	0.26	ug/L	02/18/06 LB
8260B	2,2-Dichloropropane	ND	10	50.0	0.41	ug/L	02/18/06 LB
8260B	2-Butanone (MEK)	ND	10	1000.0	1.5	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 687862

Client Sample ID: MW-503B-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 07:59

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	2-Chloroethyl vinyl ether	ND	10	50.0	0.55	ug/L	02/18/06 LB
8260B	2-Chlorotoluene	ND	10	50.0	0.31	ug/L	02/18/06 LB
8260B	2-Hexanone	ND	10	200.0	0.45	ug/L	02/18/06 LB
8260B	4-Chlorotoluene	ND	10	50.0	0.25	ug/L	02/18/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	10	100.0	0.62	ug/L	02/18/06 LB
8260B	Acetone	ND	10	1000.0	1.1	ug/L	02/18/06 LB
8260B	Acetonitrile	ND	10	500.0	0.46	ug/L	02/18/06 LB
8260B	Acrolein	ND	10	2000.0	3.3	ug/L	02/18/06 LB
8260B	Acrylonitrile	ND	10	100.0	1.5	ug/L	02/18/06 LB
8260B	Allyl chloride	ND	10	50.0	0.22	ug/L	02/18/06 LB
8260B	Benzene	331	10	10.0	0.32	ug/L	02/18/06 LB
8260B	Benzyl chloride	ND	10	50.0	0.37	ug/L	02/18/06 LB
8260B	Bromobenzene	ND	10	50.0	0.22	ug/L	02/18/06 LB
8260B	Bromo(chloromethane)	ND	10	50.0	0.44	ug/L	02/18/06 LB
8260B	Bromodichloromethane	ND	10	50.0	0.23	ug/L	02/18/06 LB
8260B	Bromoform	ND	10	50.0	0.42	ug/L	02/18/06 LB
8260B	Bromomethane	ND	10	50.0	2.1	ug/L	02/18/06 LB
8260B	Carbon Disulfide	ND	10	50.0	0.39	ug/L	02/18/06 LB
8260B	Carbon tetrachloride	ND	10	50.0	0.32	ug/L	02/18/06 LB
8260B	Chlorobenzene	ND	10	50.0	0.23	ug/L	02/18/06 LB
8260B	Chloroethane	ND	10	50.0	0.4	ug/L	02/18/06 LB
8260B	Chloroform	ND	10	50.0	0.25	ug/L	02/18/06 LB
8260B	Chloromethane	ND	10	50.0	0.55	ug/L	02/18/06 LB
8260B	cis-1,2-Dichloroethene	ND	10	50.0	0.39	ug/L	02/18/06 LB
8260B	cis-1,3-Dichloropropene	ND	10	50.0	0.39	ug/L	02/18/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	10	200.0	0.37	ug/L	02/18/06 LB
8260B	Dibromochloromethane	ND	10	50.0	0.28	ug/L	02/18/06 LB
8260B	Dibromomethane	ND	10	50.0	0.40	ug/L	02/18/06 LB
8260B	Dichlorodifluoromethane	ND	10	50.0	0.42	ug/L	02/18/06 LB
8260B	Ethyl benzene	12 J	10	50.0	0.24	ug/L	02/18/06 LB
8260B	Ethyl methacrylate	ND	10	500.0	0.50	ug/L	02/18/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	10	10.0	0.17	ug/L	02/18/06 LB
8260B	Hexachlorobutadiene	ND	10	50.0	0.28	ug/L	02/18/06 LB
8260B	Iodomethane	ND	10	50.0	0.69	ug/L	02/18/06 LB
8260B	Isopropyl ether (DIPE)	ND	10	10.0	0.29	ug/L	02/18/06 LB
8260B	Isopropylbenzene (Cumene)	69	10	50.0	0.31	ug/L	02/18/06 LB
8260B	m and p-Xylene	ND	50	250.0	0.30	ug/L	02/18/06 LB
8260B	Methacrylonitrile	ND	10	350.0	1.2	ug/L	02/18/06 LB
8260B	Methyl methacrylate	ND	10	50.0	0.38	ug/L	02/18/06 LB
8260B	Methylene chloride	ND	10	50.0	0.34	ug/L	02/18/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	10	10.0	0.63	ug/L	02/18/06 LB
8260B	Naphthalene	ND	10	50.0	0.94	ug/L	02/18/06 LB
8260B	n-Butylbenzene	ND	10	50.0	1.2	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687862

Client Sample ID: MW-503B-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 07:59

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	n-Propylbenzene	56	10	50.0	0.30	ug/L	02/18/06 LB
8260B	o-Xylene	ND	50	250.0	0.18	ug/L	02/18/06 LB
8260B	Pentachloroethane	ND	10	50.0	2.6	ug/L	02/18/06 LB
8260B	p-Isopropyltoluene	ND	10	50.0	0.14	ug/L	02/18/06 LB
8260B	Propionitrile	ND	10	1000.0	1.7	ug/L	02/18/06 LB
8260B	sec-Butylbenzene	18 J	10	50.0	0.30	ug/L	02/18/06 LB
8260B	Styrene	ND	10	50.0	0.16	ug/L	02/18/06 LB
8260B	Tert-amylmethylether (TAME)	ND	10	10.0	0.28	ug/L	02/18/06 LB
8260B	tert-Butylbenzene	ND	10	50.0	0.15	ug/L	02/18/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	10	100.0	10	ug/L	02/18/06 LB
8260B	Tetrachloroethene	ND	10	50.0	0.62	ug/L	02/18/06 LB
8260B	Toluene	ND	10	50.0	0.10	ug/L	02/18/06 LB
8260B	trans-1,2-Dichloroethene	ND	10	50.0	0.35	ug/L	02/18/06 LB
8260B	trans-1,3-Dichloropropene	ND	10	50.0	0.48	ug/L	02/18/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	10	200.0	0.41	ug/L	02/18/06 LB
8260B	Trichloroethene	ND	10	50.0	0.14	ug/L	02/18/06 LB
8260B	Trichlorofluoromethane	ND	10	50.0	0.82	ug/L	02/18/06 LB
8260B	Vinyl acetate	ND	10	500.0	0.3	ug/L	02/18/06 LB
8260B	Vinyl chloride	ND	10	50.0	0.71	ug/L	02/18/06 LB
8260B	Xylenes, total	ND	10	50.0	0.48	ug/L	02/18/06 LB
Surrogates						Units	Control Limits
8260B	Sur1 - Dibromofluoromethane	100				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102				%	70 - 135
8260B	Surr3 - Toluene-d8	96				%	70 - 135
8260B	Sur4 - p-Bromofluorobenzene	117				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 687863

Client Sample ID: MW-502-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 09:21

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/15/06 BGS
TPH-DHS	Gasoline	47600	50	2500.0	2.9	ug/L	02/15/06 SU
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	117			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	10	50.0	0.37	ug/L	02/17/06 LB
8260B	1,1,1-Trichloroethane	ND	10	50.0	0.20	ug/L	02/17/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	10	50.0	0.46	ug/L	02/17/06 LB
8260B	1,1,2-Trichloroethane	ND	10	50.0	0.31	ug/L	02/17/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	10	50.0	1.3	ug/L	02/17/06 LB
8260B	1,1-Dichloroethane	ND	10	50.0	0.20	ug/L	02/17/06 LB
8260B	1,1-Dichloroethene	ND	10	50.0	0.22	ug/L	02/17/06 LB
8260B	1,1-Dichloropropene	ND	10	50.0	0.29	ug/L	02/17/06 LB
8260B	1,2,3-Trichlorobenzene	ND	10	50.0	0.60	ug/L	02/17/06 LB
8260B	1,2,3-Trichloropropane	ND	10	50.0	0.28	ug/L	02/17/06 LB
8260B	1,2,4-Trichlorobenzene	ND	10	50.0	0.54	ug/L	02/17/06 LB
8260B	1,2,4-Trimethylbenzene	86	10	50.0	1.6	ug/L	02/17/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	10	50.0	0.74	ug/L	02/17/06 LB
8260B	1,2-Dibromoethane	ND	10	50.0	0.46	ug/L	02/17/06 LB
8260B	1,2-Dichlorobenzene	ND	10	50.0	0.23	ug/L	02/17/06 LB
8260B	1,2-Dichloroethane	ND	10	50.0	0.20	ug/L	02/17/06 LB
8260B	1,2-Dichloropropane	ND	10	50.0	1.3	ug/L	02/17/06 LB
8260B	1,3,5-Trimethylbenzene	139	10	50.0	0.72	ug/L	02/17/06 LB
8260B	1,3-Dichlorobenzene	ND	10	50.0	1.1	ug/L	02/17/06 LB
8260B	1,3-Dichloropropane	ND	10	50.0	0.50	ug/L	02/17/06 LB
8260B	1,4-Dichlorobenzene	ND	10	50.0	0.25	ug/L	02/17/06 LB
8260B	1-Chlorohexane	ND	10	50.0	0.26	ug/L	02/17/06 LB
8260B	2,2-Dichloropropane	ND	10	50.0	0.41	ug/L	02/17/06 LB
8260B	2-Butanone (MEK)	ND	10	1000.0	1.5	ug/L	02/17/06 LB
8260B	2-Chloroethyl vinyl ether	ND	10	50.0	0.55	ug/L	02/17/06 LB
8260B	2-Chlorotoluene	ND	10	50.0	0.31	ug/L	02/17/06 LB
8260B	2-Hexanone	ND	10	200.0	0.45	ug/L	02/17/06 LB
8260B	4-Chlorotoluene	ND	10	50.0	0.25	ug/L	02/17/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	10	100.0	0.62	ug/L	02/17/06 LB
8260B	Acetone	ND	10	1000.0	1.1	ug/L	02/17/06 LB
8260B	Acetonitrile	ND	10	500.0	0.46	ug/L	02/17/06 LB
8260B	Acrolein	ND	10	2000.0	3.3	ug/L	02/17/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 687863

Client Sample ID: MW-502-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 09:21

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	10	100.0	1.5	ug/L	02/17/06 LB
8260B	Allyl chloride	ND	10	50.0	0.22	ug/L	02/17/06 LB
8260B	Benzene	1280	10	10.0	0.32	ug/L	02/17/06 LB
8260B	Benzyl chloride	ND	10	50.0	0.37	ug/L	02/17/06 LB
8260B	Bromobenzene	ND	10	50.0	0.22	ug/L	02/17/06 LB
8260B	Bromoform	ND	10	50.0	0.44	ug/L	02/17/06 LB
8260B	Bromochloromethane	ND	10	50.0	0.23	ug/L	02/17/06 LB
8260B	Bromomethane	ND	10	50.0	0.42	ug/L	02/17/06 LB
8260B	Chloroform	ND	10	50.0	0.21	ug/L	02/17/06 LB
8260B	Chlorobenzene	ND	10	50.0	0.39	ug/L	02/17/06 LB
8260B	Chloroethane	ND	10	50.0	0.4	ug/L	02/17/06 LB
8260B	Chloroethylene	ND	10	50.0	0.25	ug/L	02/17/06 LB
8260B	Chloromethane	ND	10	50.0	0.55	ug/L	02/17/06 LB
8260B	cis-1,2-Dichloroethene	ND	10	50.0	0.39	ug/L	02/17/06 LB
8260B	cis-1,3-Dichloropropene	ND	10	50.0	0.39	ug/L	02/17/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	10	200.0	0.37	ug/L	02/17/06 LB
8260B	Dibromochloromethane	ND	10	50.0	0.28	ug/L	02/17/06 LB
8260B	Dibromomethane	ND	10	50.0	0.40	ug/L	02/17/06 LB
8260B	Dichlorodifluoromethane	ND	10	50.0	0.42	ug/L	02/17/06 LB
8260B	Ethyl benzene	616	10	50.0	0.24	ug/L	02/17/06 LB
8260B	Ethyl methacrylate	ND	10	500.0	0.50	ug/L	02/17/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	10	10.0	0.17	ug/L	02/17/06 LB
8260B	Hexachlorobutadiene	ND	10	50.0	0.28	ug/L	02/17/06 LB
8260B	Iodomethane	ND	10	50.0	0.69	ug/L	02/17/06 LB
8260B	Isopropyl ether (DIPE)	ND	10	10.0	0.29	ug/L	02/17/06 LB
8260B	Isopropylbenzene (Cumene)	87	10	50.0	0.31	ug/L	02/17/06 LB
8260B	m and p-Xylene	182	10	50.0	0.30	ug/L	02/17/06 LB
8260B	Methacrylonitrile	ND	10	350.0	1.2	ug/L	02/17/06 LB
8260B	Methyl methacrylate	ND	10	50.0	0.38	ug/L	02/17/06 LB
8260B	Methylene chloride	ND	10	50.0	0.34	ug/L	02/17/06 LB
8260B	Methyl-tert-butylether (MTBE)	29300	250	250.0	0.63	ug/L	02/18/06 LB
8260B	Naphthalene	183	10	50.0	0.94	ug/L	02/17/06 LB
8260B	n-Butylbenzene	32 J	10	50.0	1.2	ug/L	02/17/06 LB
8260B	n-Propylbenzene	117	10	50.0	0.30	ug/L	02/17/06 LB
8260B	o-Xylene	ND	10	50.0	0.18	ug/L	02/17/06 LB
8260B	Pentachloroethane	ND	10	50.0	2.6	ug/L	02/17/06 LB
8260B	p-Isopropyltoluene	ND	10	50.0	0.14	ug/L	02/17/06 LB
8260B	Propionitrile	ND	10	1000.0	1.7	ug/L	02/17/06 LB
8260B	sec-Butylbenzene	ND	10	50.0	0.30	ug/L	02/17/06 LB
8260B	Styrene	ND	10	50.0	0.16	ug/L	02/17/06 LB
8260B	Tert-amylmethylether (TAME)	ND	10	10.0	0.28	ug/L	02/17/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687863

Client Sample ID: MW-502-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 09:21

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	10	50.0	0.15	ug/L	02/17/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	10	100.0	10	ug/L	02/17/06 LB
8260B	Tetrachloroethene	ND	10	50.0	0.62	ug/L	02/17/06 LB
8260B	Toluene	32 J	10	50.0	0.10	ug/L	02/17/06 LB
8260B	trans-1,2-Dichloroethene	ND	10	50.0	0.35	ug/L	02/17/06 LB
8260B	trans-1,3-Dichloropropene	ND	10	50.0	0.48	ug/L	02/17/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	10	200.0	0.41	ug/L	02/17/06 LB
8260B	Trichloroethene	ND	10	50.0	0.14	ug/L	02/17/06 LB
8260B	Trichlorofluoromethane	ND	10	50.0	0.82	ug/L	02/17/06 LB
8260B	Vinyl acetate	ND	10	500.0	0.3	ug/L	02/17/06 LB
8260B	Vinyl chloride	ND	10	50.0	0.71	ug/L	02/17/06 LB
8260B	Xylenes, total	182	10	50.0	0.48	ug/L	02/17/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	106				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	103				%	70 - 135
8260B	Surr3 - Toluene-d8	94				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	109				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687864

Client Sample ID: MW-603-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 11:22

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/15/06 BGS
TPH-DHS	Gasoline	245	1	50	2.9	ug/L	02/15/06 SU
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	293*			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/17/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/17/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/17/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	5.5	1	5	1.3	ug/L	02/17/06 LB
8260B	1,1-Dichloroethane	6.0	1	5	0.20	ug/L	02/17/06 LB
8260B	1,1-Dichloroethene	80	1	5	0.22	ug/L	02/17/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/17/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/17/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/17/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/17/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/17/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/17/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	1,2-Dichloroethane	28	1	5	0.20	ug/L	02/17/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/17/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/17/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/17/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/17/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/17/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/17/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/17/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/17/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/17/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/17/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/17/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/17/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/17/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

687864

Client Sample ID:

MW-603-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 11:22

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/17/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/17/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/17/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/17/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	Bromomethane	ND	1	5	0.42	ug/L	02/17/06 LB
8260B	Carbon Disulfide	ND	1	5	2.1	ug/L	02/17/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	Chlorobenzene	ND	1	5	0.32	ug/L	02/17/06 LB
8260B	Chloroethane	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	Chloroethene	ND	1	5	0.4	ug/L	02/17/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/17/06 LB
8260B	cis-1,2-Dichloroethene	17	1	5	0.39	ug/L	02/17/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/17/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/17/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/17/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/17/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/17/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/17/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/17/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/17/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/17/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/17/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/17/06 LB
8260B	Methyl-tert-butylether (MTBE)	1.7	1	1	0.63	ug/L	02/17/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/17/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/17/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/17/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/17/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/17/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/17/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/17/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/17/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687864

Client Sample ID: MW-603-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 11:22

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/17/06 LB
8260B	Tertiary butyl alcohol (TBA)	18	1	10	10	ug/L	02/17/06 LB
8260B	Tetrachloroethene	103	1	5	0.62	ug/L	02/17/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/17/06 LB
8260B	trans-1,2-Dichloroethene	3.5 J	1	5	0.35	ug/L	02/17/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/17/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/17/06 LB
8260B	Trichloroethene	110	1	5	0.14	ug/L	02/17/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/17/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/17/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/17/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/17/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	105				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	100				%	70 - 135
8260B	Surr3 - Toluene-d8	99				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	106				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 687865

Client Sample ID: MW-605-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 12:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2320B	Bicarbonate	549	1	5.0	1.0	mg/L	02/16/06 NA
2320B	Carbonate	ND	1	5.0	0.7	mg/L	02/16/06 NA
3500FED	Ferrous Iron	ND	1	0.10	0.07	mg/L	02/15/06 HK
7199	Hexavalent Chromium	0.2 J	1	0.3	0.04	ug/L	02/15/06 BGS
2320B	Hydroxide	ND	1	5.0	0.3	mg/L	02/16/06 NA
300.0	Nitrate (as NO ₃)	38.2	1	0.44	0.04	mg/L	02/15/06 QN
300.0	Sulfate	182	5	5.0	0.23	mg/L	02/21/06 QN
2320B	Total Alkalinity as CaCO ₃	450	1	5.0	1.8	mg/L	02/16/06 NA
TPH-DHS	Gasoline	53	1	50	2.9	ug/L	02/16/06 SU
8015B	Methane	ND	1	0.005	0.005	mg/L	02/16/06 LT
Surrogates					Units	Control Limits	
TPH-DHS	a,a,a-Trifluorotoluene	145			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/17/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/17/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/17/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/17/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/17/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/17/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/17/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/17/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/17/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/17/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/17/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/17/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/17/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/17/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/17/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/17/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/17/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/17/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/17/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

687865

Client Sample ID:

MW-605-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 12:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/17/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/17/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	1	10	0.62	ug/L	02/17/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/17/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/17/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/17/06 LB
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/17/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/17/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/17/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	Bromochloromethane	ND	1	5	0.44	ug/L	02/17/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/17/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/17/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/17/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/17/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/17/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/17/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/17/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/17/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/17/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/17/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/17/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/17/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/17/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/17/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/17/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/17/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/17/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/17/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/17/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687865

Client Sample ID: MW-605-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 12:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/17/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/17/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/17/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/17/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/17/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/17/06 LB
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/17/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/17/06 LB
8260B	Tetrachloroethene	5.3	1	5	0.62	ug/L	02/17/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/17/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/17/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/17/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/17/06 LB
8260B	Trichloroethene	21	1	5	0.14	ug/L	02/17/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/17/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/17/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/17/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/17/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	103				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	103				%	70 - 135
8260B	Surr3 - Toluene-d8	102				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	106				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687866

Client Sample ID: MW-605-0206-D

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 12:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2320B	Bicarbonate	561	1	5.0	1.0	mg/L	02/16/06 NA
2320B	Carbonate	ND	1	5.0	0.7	mg/L	02/16/06 NA
3500FED	Ferrous Iron	ND	1	0.10	0.07	mg/L	02/15/06 HK
7199	Hexavalent Chromium	0.3	1	0.3	0.04	ug/L	02/15/06 BGS
2320B	Hydroxide	ND	1	5.0	0.3	mg/L	02/16/06 NA
300.0	Nitrate (as NO ₃)	37.8	1	0.44	0.04	mg/L	02/15/06 QN
300.0	Sulfate	184	5	5.0	0.23	mg/L	02/21/06 QN
2320B	Total Alkalinity as CaCO ₃	460	1	5.0	1.8	mg/L	02/16/06 NA
TPH-DHS	Gasoline	ND	1	50	2.9	ug/L	02/16/06 SU
8015B	Methane	ND	1	0.005	0.005	mg/L	02/16/06 LT
Surrogates					Units	Control Limits	
TPH-DHS	a,a,a-Trifluorotoluene	136			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/18/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/18/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/18/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/18/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/18/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/18/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/18/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/18/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/18/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/18/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 687866

Client Sample ID: MW-605-0206-D

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 12:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/18/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	1	10	0.62	ug/L	02/18/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/18/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/18/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/18/06 LB
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/18/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/18/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Bromochloromethane	ND	1	5	0.44	ug/L	02/18/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/18/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/18/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/18/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/18/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/18/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/18/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/18/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/18/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/18/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/18/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/18/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/18/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/18/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/18/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/18/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687866

Client Sample ID: MW-605-0206-D

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 12:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/18/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/18/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/18/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/18/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/18/06 LB
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/18/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/18/06 LB
8260B	Tetrachloroethene	4.2 J	1	5	0.62	ug/L	02/18/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/18/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/18/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/18/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/18/06 LB
8260B	Trichloroethene	17	1	5	0.14	ug/L	02/18/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/18/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/18/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/18/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/18/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	100				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102				%	70 - 135
8260B	Surr3 - Toluene-d8	97				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	108				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687867

Client Sample ID: MW-606-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 14:02

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2320B	Bicarbonate	488	1	5.0	1.0	mg/L	02/16/06 NA
2320B	Carbonate	ND	1	5.0	0.7	mg/L	02/16/06 NA
3500FED	Ferrous Iron	ND	1	0.10	0.07	mg/L	02/15/06 HK
7199	Hexavalent Chromium	3.5	1	0.3	0.04	ug/L	02/15/06 BGS
2320B	Hydroxide	ND	1	5.0	0.3	mg/L	02/16/06 NA
300.0	Nitrate (as NO ₃)	34.0	1	0.44	0.04	mg/L	02/15/06 QN
300.0	Sulfate	334	5	5.0	0.23	mg/L	02/21/06 QN
2320B	Total Alkalinity as CaCO ₃	400	1	5.0	1.8	mg/L	02/16/06 NA
TPH-DHS	Gasoline	ND	1	50	2.9	ug/L	02/16/06 SU
8015B	Methane	ND	1	0.005	0.005	mg/L	02/16/06 LT
Surrogates						Units	Control Limits
TPH-DHS	a,a,a-Trifluorotoluene	83				%	55 - 200
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/18/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/18/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/18/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/18/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/18/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/18/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/18/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/18/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/18/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/18/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

687867

Client Sample ID:

MW-606-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 14:02

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/18/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	1	10	0.62	ug/L	02/18/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/18/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/18/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/18/06 LB
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/18/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/18/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Bromochloromethane	ND	1	5	0.44	ug/L	02/18/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/18/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/18/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/18/06 LB
8260B	Chloroform	2.4 J	1	5	0.25	ug/L	02/18/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/18/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/18/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/18/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/18/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/18/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/18/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/18/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/18/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/18/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/18/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/18/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/18/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687867

Client Sample ID: MW-606-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 14:02

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/18/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/18/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/18/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/18/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/18/06 LB
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/18/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/18/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/18/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/18/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/18/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/18/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/18/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Trichlorofluoromethane	3.8 J	1	5	0.82	ug/L	02/18/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/18/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/18/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/18/06 LB
Surrogates						Units	Control Limits
8260B	Sur1 - Dibromofluoromethane	102				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	99				%	70 - 135
8260B	Surr3 - Toluene-d8	94				%	70 - 135
8260B	Sur4 - p-Bromofluorobenzene	102				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687868

Client Sample ID: MW-607-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 15:15

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/15/06 BGS
TPH-DHS	Gasoline	373	1	50	2.9	ug/L	02/16/06 SU
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	118			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/21/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/21/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/21/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/21/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/21/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/21/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/21/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/21/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/21/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/21/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/21/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/21/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/21/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/21/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/21/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

687868

Client Sample ID:

MW-607-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 15:15

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/21/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/21/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/21/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Bromomethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Chloroform	ND	1	5	2.1	ug/L	02/21/06 LB
8260B	Chlorobenzene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	Chloroethane	ND	1	5	0.32	ug/L	02/21/06 LB
8260B	Chloroethylene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Chloroform	ND	1	5	0.4	ug/L	02/21/06 LB
8260B	Chloromethane	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/21/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/21/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/21/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/21/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/21/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/21/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/21/06 LB
8260B	Isopropylbenzene (Cumene)	8.0	1	5	0.31	ug/L	02/21/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/21/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/21/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/21/06 LB
8260B	Methyl-tert-butylether (MTBE)	2.1	1	1	0.63	ug/L	02/21/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/21/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/21/06 LB
8260B	n-Propylbenzene	11	1	5	0.30	ug/L	02/21/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/21/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/21/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/21/06 LB
8260B	sec-Butylbenzene	2.6 J	1	5	0.30	ug/L	02/21/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/21/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 687868

Client Sample ID: MW-607-0206

Matrix: WATER

Date Sampled: 02/14/2006

Time Sampled: 15:15

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/21/06 LB
8260B	Tertiary butyl alcohol (TBA)	57	1	10	10	ug/L	02/21/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/21/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/21/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/21/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/21/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/21/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/21/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/21/06 LB
8260B	Vinyl chloride	1.0 J	1	5	0.71	ug/L	02/21/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/21/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	105				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102				%	70 - 135
8260B	Surr3 - Toluene-d8	97				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	103				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

687869

Client Sample ID:

Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2320B	Bicarbonate	ND	1	5.0	1.0	mg/L	02/16/06 NA
2320B	Carbonate	ND	1	5.0	0.7	mg/L	02/16/06 NA
3500FED	Ferrous Iron	ND	1	0.10	0.07	mg/L	02/15/06 HK
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/15/06 BGS
2320B	Hydroxide	ND	1	5.0	0.3	mg/L	02/16/06 NA
300.0	Nitrate (as NO ₃)	ND	1	0.44	0.04	mg/L	02/15/06 QN
300.0	Sulfate	ND	1	1.0	0.23	mg/L	02/15/06 QN
2320B	Total Alkalinity as CaCO ₃	ND	1	5.0	1.8	mg/L	02/16/06 NA
TPH-DHS	Gasoline	ND	1	50	2.9	ug/L	02/15/06 SU
8015B	Methane	ND	1	0.005	0.005	mg/L	02/16/06 LT
Surrogates						Units	Control Limits
TPH-DHS	a,a,a-Trifluorotoluene	90				%	55 - 200
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/17/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/17/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/17/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/17/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/17/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/17/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/17/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/17/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/17/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/17/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/17/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/17/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/17/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/17/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/17/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/17/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/17/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/17/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/17/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

687869

Client Sample ID:

Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/17/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/17/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	1	10	0.62	ug/L	02/17/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/17/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/17/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/17/06 LB
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/17/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/17/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/17/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/17/06 LB
8260B	Bromochloromethane	ND	1	5	0.44	ug/L	02/17/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/17/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/17/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/17/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/17/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/17/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/17/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/17/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/17/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/17/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/17/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/17/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/17/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/17/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/17/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/17/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/17/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/17/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/17/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/17/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/17/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/17/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/17/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/17/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/17/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #:

687869

Client Sample ID:

Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/17/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/17/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/17/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/17/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/17/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/17/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/17/06 LB
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/17/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/17/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/17/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/17/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/17/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/17/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/17/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/17/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/17/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/17/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/17/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/17/06 LB
Surrogates						Units	Control Limits
8260B	Sur1 - Dibromofluoromethane	107				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	105				%	70 - 135
8260B	Surr3 - Toluene-d8	94				%	70 - 135
8260B	Sur4 - p-Bromofluorobenzene	111				%	70 - 135

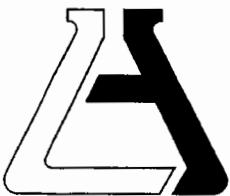
EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report





ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Blasland Bouck & Lee (9343)
ATTN: Jennifer Wiley
2600 Michelson Dr. Suite 830
Irvine, CA 92612-6520

LAB REQUEST 164587
REPORTED 02/23/2006
RECEIVED 02/15/2006

PROJECT Former Cenco Refinery #54202.001

SUBMITTER Client

COMMENTS Client sample ID's revised per email on 02/16/06.KW

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
688268	TB-021506
688269	MW-204-0206
688270	MW-104A-0206
688271	MW-205-0206
688272	MW-105-0206
688273	MW-105-0206-D
688274	MW-201-0206
688275	W-1-0206
688276	W-4-0206
688277	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,



Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
*Chemical
Microbiological
Environmental*

Order #: 688268

Client Sample ID: TB-021506

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 07:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
TPH-DHS	Gasoline	ND	1	50	2.9	ug/L	02/17/06 LT
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	58			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/18/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/18/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/18/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/18/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/18/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/18/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/18/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/18/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/18/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/18/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/18/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/18/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	1	10	0.62	ug/L	02/18/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/18/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/18/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/18/06 LB
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/18/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/18/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688268

Client Sample ID: TB-021506

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 07:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/18/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Bromodichloromethane	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/18/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/18/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/18/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/18/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/18/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/18/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/18/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/18/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/18/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/18/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/18/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/18/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/18/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/18/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/18/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/18/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/18/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/18/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/18/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/18/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/18/06 LB
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/18/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/18/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/18/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688268

Client Sample ID: TB-021506

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 07:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/18/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/18/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/18/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/18/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/18/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/18/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/18/06 LB
Surrogates						Units	Control Limits
8260B	Sur1 - Dibromofluoromethane	100				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102				%	70 - 135
8260B	Surr3 - Toluene-d8	97				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	107				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688269

Client Sample ID: MW-204-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 07:45

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/16/06 BGS
TPH-DHS	Gasoline	111	1	50	2.9	ug/L	02/17/06 LT
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	77			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/21/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/21/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/21/06 LB
8260B	1,2,4-Trimethylbenzene	2.6 J	1	5	1.6	ug/L	02/21/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/21/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,3,5-Trimethylbenzene	1.2 J	1	5	0.72	ug/L	02/21/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/21/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/21/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/21/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/21/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/21/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/21/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/21/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/21/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/21/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

688269

Client Sample ID:

MW-204-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 07:45

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/21/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Benzene	1.5	1	1	0.32	ug/L	02/21/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Bromochloromethane	ND	1	5	0.44	ug/L	02/21/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/21/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/21/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/21/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	cis-1,2-Dichloroethene	2.6 J	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/21/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/21/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Ethyl benzene	2.5 J	1	5	0.24	ug/L	02/21/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/21/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/21/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/21/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/21/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	m and p-Xylene	1.4 J	1	5	0.30	ug/L	02/21/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/21/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/21/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/21/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/21/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/21/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/21/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/21/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/21/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/21/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/21/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688269

Client Sample ID: MW-204-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 07:45

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/21/06 LB
8260B	Tertiary butyl alcohol (TBA)	91	1	10	10	ug/L	02/21/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/21/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/21/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/21/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/21/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/21/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/21/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/21/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/21/06 LB
8260B	Xylenes, total	1.4 J	1	5	0.48	ug/L	02/21/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	100				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102				%	70 - 135
8260B	Surr3 - Toluene-d8	99				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	107				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688270

Client Sample ID: MW-104A-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 09:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2320B	Bicarbonate	979	1	5.0	1.0	mg/L	02/23/06 NA
2320B	Carbonate	ND	1	5.0	0.7	mg/L	02/23/06 NA
3500FED	Ferrous Iron	ND	1	0.10	0.07	mg/L	02/16/06 HK
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/16/06 BGS
2320B	Hydroxide	ND	1	5.0	0.3	mg/L	02/23/06 NA
300.0	Nitrate (as NO ₃)	ND	1	0.44	0.04	mg/L	02/16/06 QN
300.0	Sulfate	56.3	1	1.0	0.23	mg/L	02/16/06 QN
2320B	Total Alkalinity as CaCO ₃	803	1	5.0	1.8	mg/L	02/23/06 NA
TPH-DHS	Gasoline	ND	1	50	2.9	ug/L	02/17/06 LT
8015B	Methane	0.059	1	0.005	0.005	mg/L	02/17/06 LT
Surrogates					Units	Control Limits	
TPH-DHS	a,a,a-Trifluorotoluene	66			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/21/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/21/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/21/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/21/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/21/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/21/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/21/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/21/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/21/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/21/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688270

Client Sample ID: MW-104A-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 09:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/21/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	1	10	0.62	ug/L	02/21/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/21/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/21/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/21/06 LB
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/21/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/21/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Bromochloromethane	ND	1	5	0.44	ug/L	02/21/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/21/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/21/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/21/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	cis-1,2-Dichloroethene	2.0 J	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/21/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/21/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/21/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/21/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/21/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/21/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/21/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/21/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/21/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/21/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/21/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/21/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688270

Client Sample ID: MW-104A-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 09:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/21/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/21/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/21/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/21/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/21/06 LB
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/21/06 LB
8260B	Tertiary butyl alcohol (TBA)	30	1	10	10	ug/L	02/21/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/21/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/21/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/21/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/21/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/21/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/21/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/21/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/21/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/21/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	101				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102				%	70 - 135
8260B	Surr3 - Toluene-d8	97				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	106				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688271

Client Sample ID: MW-205-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 10:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2320B	Bicarbonate	769	1	5.0	1.0	mg/L	02/23/06 NA
2320B	Carbonate	ND	1	5.0	0.7	mg/L	02/23/06 NA
3500FED	Ferrous Iron	ND	1	0.10	0.07	mg/L	02/16/06 HK
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/16/06 BGS
2320B	Hydroxide	ND	1	5.0	0.3	mg/L	02/23/06 NA
300.0	Nitrate (as NO ₃)	ND	1	0.44	0.04	mg/L	02/16/06 QN
300.0	Sulfate	341	10	10.0	0.23	mg/L	02/22/06 QN
2320B	Total Alkalinity as CaCO ₃	630	1	5.0	1.8	mg/L	02/23/06 NA
TPH-DHS	Gasoline	411	1	50	2.9	ug/L	02/17/06 LT
8015B	Methane	1.036	3	0.015	0.005	mg/L	02/17/06 LT
Surrogates					Units	Control Limits	
TPH-DHS	a,a,a-Trifluorotoluene	155			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/21/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/21/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/21/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/21/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/21/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/21/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/21/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/21/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/21/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/21/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

688271

Client Sample ID:

MW-205-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 10:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/21/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	1	10	0.62	ug/L	02/21/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/21/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/21/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/21/06 LB
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/21/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Benzene	35	1	1	0.32	ug/L	02/21/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Bromo(chloromethane)	ND	1	5	0.44	ug/L	02/21/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/21/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/21/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/21/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	cis-1,2-Dichloroethene	19	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/21/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/21/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/21/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/21/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/21/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/21/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/21/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/21/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/21/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/21/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/21/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/21/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688271

Client Sample ID: MW-205-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 10:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/21/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/21/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/21/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/21/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/21/06 LB
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/21/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/21/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/21/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/21/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/21/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/21/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/21/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/21/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/21/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/21/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/21/06 LB
Surrogates						Units	Control Limits
8260B	Sur1 - Dibromofluoromethane	102				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	101				%	70 - 135
8260B	Surr3 - Toluene-d8	96				%	70 - 135
8260B	Sur4 - p-Bromofluorobenzene	114				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688272

Client Sample ID: MW-105-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 11:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/16/06 BGS
TPH-DHS	Gasoline	205	1	50	2.9	ug/L	02/17/06 LT
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	286*			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,1-Dichloroethane	5.7	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1-Dichloroethene	7.3	1	5	0.22	ug/L	02/18/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/18/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/18/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/18/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/18/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/18/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/18/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/18/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/18/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/18/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/18/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/18/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/18/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/18/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/18/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/18/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

688272

Client Sample ID:

MW-105-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 11:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/18/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/18/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/18/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Bromodichloromethane	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Bromoform	ND	1	5	2.1	ug/L	02/18/06 LB
8260B	Bromomethane	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	Carbon Disulfide	ND	1	5	0.32	ug/L	02/18/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/18/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	cis-1,2-Dichloroethene	8.8	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/18/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/18/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/18/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/18/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/18/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/18/06 LB
8260B	Isopropyl ether (DIPE)	1.1	1	1	0.29	ug/L	02/18/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/18/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/18/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/18/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/18/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/18/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/18/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/18/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/18/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/18/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/18/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688272

Client Sample ID: MW-105-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 11:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/18/06 LB
8260B	Tertiary butyl alcohol (TBA)	27	1	10	10	ug/L	02/18/06 LB
8260B	Tetrachloroethene	4.4 J	1	5	0.62	ug/L	02/18/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/18/06 LB
8260B	trans-1,2-Dichloroethene	3.2 J	1	5	0.35	ug/L	02/18/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/18/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/18/06 LB
8260B	Trichloroethene	36	1	5	0.14	ug/L	02/18/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/18/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/18/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/18/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/18/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	103				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	99				%	70 - 135
8260B	Surr3 - Toluene-d8	98				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	104				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688273

Client Sample ID: MW-105-0206-D

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 11:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/16/06 BGS
TPH-DHS	Gasoline	204	1	50	2.9	ug/L	02/17/06 LT
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	280*			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,1-Dichloroethane	5.2	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1-Dichloroethene	7.4	1	5	0.22	ug/L	02/18/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/18/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/18/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/18/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/18/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/18/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/18/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/18/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/18/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/18/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/18/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/18/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/18/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/18/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/18/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/18/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688273

Client Sample ID: MW-105-0206-D

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 11:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/18/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/18/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/18/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Bromodichloromethane	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Bromoform	ND	1	5	2.1	ug/L	02/18/06 LB
8260B	Bromomethane	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	Carbon Disulfide	ND	1	5	0.32	ug/L	02/18/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/18/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	cis-1,2-Dichloroethene	8.8	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/18/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/18/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/18/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/18/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/18/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/18/06 LB
8260B	Isopropyl ether (DIPE)	1.2	1	1	0.29	ug/L	02/18/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/18/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/18/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/18/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/18/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/18/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/18/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/18/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/18/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/18/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/18/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688273

Client Sample ID: MW-105-0206-D

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 11:05

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/18/06 LB
8260B	Tertiary butyl alcohol (TBA)	27	1	10	10	ug/L	02/18/06 LB
8260B	Tetrachloroethene	4.0 J	1	5	0.62	ug/L	02/18/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/18/06 LB
8260B	trans-1,2-Dichloroethene	3.0 J	1	5	0.35	ug/L	02/18/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/18/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/18/06 LB
8260B	Trichloroethene	34	1	5	0.14	ug/L	02/18/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/18/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/18/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/18/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/18/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	102				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	99				%	70 - 135
8260B	Surr3 - Toluene-d8	99				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	110				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688274

Client Sample ID: MW-201-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 12:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/16/06 BGS
TPH-DHS	Gasoline	1890	1	50	2.9	ug/L	02/17/06 LT
Surrogates						Units	Control Limits
TPH-DHS	a,a,a-Trifluorotoluene	119			%		55 - 200
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/21/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/21/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/21/06 LB
8260B	1,2,4-Trimethylbenzene	1.2	1	5	1.6	ug/L	02/21/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/21/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/21/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/21/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/21/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/21/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/21/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/21/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/21/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/21/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/21/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/21/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

688274

Client Sample ID:

MW-201-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 12:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/21/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Benzene	128	1	1	0.32	ug/L	02/21/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Bromochloromethane	ND	1	5	0.44	ug/L	02/21/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/21/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/21/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/21/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	cis-1,2-Dichloroethene	8.1	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/21/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/21/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Ethyl benzene	15	1	5	0.24	ug/L	02/21/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/21/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/21/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/21/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/21/06 LB
8260B	Isopropylbenzene (Cumene)	5.3	1	5	0.31	ug/L	02/21/06 LB
8260B	m and p-Xylene	6.3	1	5	0.30	ug/L	02/21/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/21/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/21/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/21/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/21/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/21/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/21/06 LB
8260B	n-Propylbenzene	3.3 J	1	5	0.30	ug/L	02/21/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/21/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/21/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/21/06 LB
8260B	sec-Butylbenzene	1.1 J	1	5	0.30	ug/L	02/21/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/21/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688274

Client Sample ID: MW-201-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 12:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/21/06 LB
8260B	Tertiary butyl alcohol (TBA)	20	1	10	10	ug/L	02/21/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/21/06 LB
8260B	Toluene	2.5 J	1	5	0.10	ug/L	02/21/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/21/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/21/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/21/06 LB
8260B	Trichloroethene	1.6 J	1	5	0.14	ug/L	02/21/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/21/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/21/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/21/06 LB
8260B	Xylenes, total	6.3	1	5	0.48	ug/L	02/21/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	104				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	90				%	70 - 135
8260B	Surr3 - Toluene-d8	101				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	108				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688275

Client Sample ID: W-1-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 13:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/16/06 BGS
TPH-DHS	Gasoline	266	1	50	2.9	ug/L	02/17/06 LT
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	79			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/18/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/18/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/18/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/18/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/18/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/18/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/18/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/18/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/18/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/18/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/18/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/18/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/18/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/18/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/18/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

688275

Client Sample ID:

W-1-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 13:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/18/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Benzene	32	1	1	0.32	ug/L	02/18/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Bromo-chloromethane	ND	1	5	0.44	ug/L	02/18/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/18/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/18/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/18/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/18/06 LB
8260B	Dibromo-chloromethane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/18/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/18/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/18/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/18/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/18/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/18/06 LB
8260B	Isopropylbenzene (Cumene)	4.3 J	1	5	0.31	ug/L	02/18/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/18/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/18/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/18/06 LB
8260B	Methyl-tert-butylether (MTBE)	22	1	1	0.63	ug/L	02/18/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/18/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/18/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/18/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/18/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/18/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/18/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688275

Client Sample ID: W-1-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 13:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/18/06 LB
8260B	Tertiary butyl alcohol (TBA)	37	1	10	10	ug/L	02/18/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/18/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/18/06 LB
8260B	trans-1,2-Dichloroethene	1.3 J	1	5	0.35	ug/L	02/18/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/18/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/18/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/18/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/18/06 LB
8260B	Vinyl chloride	3.3 J	1	5	0.71	ug/L	02/18/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/18/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	100				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	101				%	70 - 135
8260B	Surr3 - Toluene-d8	96				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	109				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688276

Client Sample ID: W-4-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 15:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/16/06 BGS
TPH-DHS	Gasoline	501	1	50	2.9	ug/L	02/17/06 LT
Surrogates						Units	Control Limits
TPH-DHS	a,a,a-Trifluorotoluene	99			%		55 - 200
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,1-Dichloroethane	2.5 J	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/21/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/21/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/21/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/21/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/21/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/21/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/21/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/21/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/21/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/21/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/21/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/21/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/21/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/21/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/21/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/21/06 LB

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ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

688276

Client Sample ID:

W-4-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 15:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/21/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Benzene	43	1	1	0.32	ug/L	02/21/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/21/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Bromodichloromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	2.1	ug/L	02/21/06 LB
8260B	Bromomethane	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	Carbon Disulfide	ND	1	5	0.32	ug/L	02/21/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/21/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	cis-1,2-Dichloroethene	2.8 J	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/21/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/21/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/21/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/21/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/21/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/21/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/21/06 LB
8260B	Isopropylbenzene (Cumene)	12	1	5	0.31	ug/L	02/21/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/21/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/21/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/21/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/21/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/21/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/21/06 LB
8260B	n-Propylbenzene	7.5	1	5	0.30	ug/L	02/21/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/21/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/21/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/21/06 LB
8260B	sec-Butylbenzene	2.0 J	1	5	0.30	ug/L	02/21/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/21/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688276

Client Sample ID: W-4-0206

Matrix: WATER

Date Sampled: 02/15/2006

Time Sampled: 15:10

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/21/06 LB
8260B	Tertiary butyl alcohol (TBA)	38	1	10	10	ug/L	02/21/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/21/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/21/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/21/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/21/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/21/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/21/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/21/06 LB
8260B	Vinyl chloride	2.4 J	1	5	0.71	ug/L	02/21/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/21/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	105				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102				%	70 - 135
8260B	Surr3 - Toluene-d8	98				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	110				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

688277

Client Sample ID:

Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2320B	Bicarbonate	ND	1	5.0	1.0	mg/L	02/23/06 NA
2320B	Carbonate	ND	1	5.0	0.7	mg/L	02/23/06 NA
3500FED	Ferrous Iron	ND	1	0.10	0.07	mg/L	02/16/06 HK
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/16/06 BGS
2320B	Hydroxide	ND	1	5.0	0.3	mg/L	02/23/06 NA
300.0	Nitrate (as NO ₃)	ND	1	0.44	0.04	mg/L	02/16/06 QN
300.0	Sulfate	ND	1	1.0	0.23	mg/L	02/16/06 QN
2320B	Total Alkalinity as CaCO ₃	ND	1	5.0	1.8	mg/L	02/23/06 NA
TPH-DHS	Gasoline	ND	1	50	2.9	ug/L	02/17/06 LT
8015B	Methane	ND	1	0.005	0.005	mg/L	02/17/06 LT
Surrogates					Units	Control Limits	
TPH-DHS	a,a,a-Trifluorotoluene	61			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/18/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/18/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/18/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/18/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/18/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/18/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/18/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/18/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/18/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/18/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/18/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/18/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/18/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

688277

Client Sample ID:

Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/18/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	1	10	0.62	ug/L	02/18/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/18/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/18/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/18/06 LB
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/18/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/18/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/18/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/18/06 LB
8260B	Bromochloromethane	ND	1	5	0.44	ug/L	02/18/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/18/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/18/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/18/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/18/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/18/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/18/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/18/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/18/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/18/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/18/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/18/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/18/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/18/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/18/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/18/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/18/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/18/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/18/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/18/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/18/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/18/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/18/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/18/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #:

688277

Client Sample ID:

Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/18/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/18/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/18/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/18/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/18/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/18/06 LB
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/18/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/18/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/18/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/18/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/18/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/18/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/18/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/18/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/18/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/18/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/18/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/18/06 LB
Surrogates						Units	Control Limits
8260B	Sur1 - Dibromofluoromethane	102				%	70 - 135
8260B	Sur2 - 1,2-Dichloroethane-d4	101				%	70 - 135
8260B	Sur3 - Toluene-d8	97				%	70 - 135
8260B	Sur4 - p-Bromofluorobenzene	108				%	70 - 135

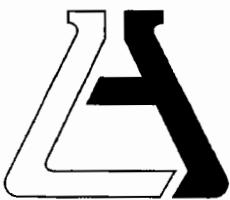
EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report





ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT	Blasland Bouck & Lee ATTN: Jennifer Wiley 2600 Michelson Dr. Suite 830 Irvine, CA 92612-6520	(9343)	LAB REQUEST	164663
			REPORTED	02/23/2006
			RECEIVED	02/16/2006

PROJECT Former Cenco Refinery #54202.001

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
688554	TB-0206
688555	W-3A-0206
688556	W-7-0206
688557	W-8-0206
688558	MW-504-0206
688559	Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,



Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
*Chemical
Microbiological
Environmental*

Order #:

688554

Client Sample ID:

TB-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 07:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/21/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/21/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/21/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/21/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/21/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/21/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/21/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/21/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/21/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/21/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/21/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/21/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	1	10	0.62	ug/L	02/21/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/21/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/21/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/21/06 LB
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/21/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/21/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Bromochloromethane	ND	1	5	0.44	ug/L	02/21/06 LB
8260B	Bromodichloromethane	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Bromomethane	ND	1	5	2.1	ug/L	02/21/06 LB
8260B	Carbon Disulfide	ND	1	5	0.39	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688554

Client Sample ID: TB-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 07:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Carbon tetrachloride	ND	1	5	0.32	ug/L	02/21/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/21/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/21/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/21/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/21/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/21/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/21/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/21/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/21/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/21/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/21/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/21/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/21/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/21/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/21/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/21/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/21/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/21/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/21/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/21/06 LB
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/21/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/21/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/21/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/21/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/21/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/21/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/21/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/21/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688554

Client Sample ID: TB-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 07:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/21/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/21/06 LB
Surrogates							
8260B	Surr1 - Dibromofluoromethane	104				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	107				%	70 - 135
8260B	Surr3 - Toluene-d8	97				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	109				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688555

Client Sample ID: W-3A-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 07:55

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/17/06 BGS
TPH-DHS	Gasoline	306	1	50	2.9	ug/L	02/21/06 SU
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	104			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/22/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/22/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/22/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/22/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/22/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/22/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/22/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/22/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/22/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/22/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/22/06 LB
8260B	1,2,4-Trimethylbenzene	18	1	5	1.6	ug/L	02/22/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/22/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/22/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/22/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/22/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/22/06 LB
8260B	1,3,5-Trimethylbenzene	16	1	5	0.72	ug/L	02/22/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/22/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/22/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/22/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/22/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/22/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/22/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/22/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/22/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/22/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/22/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/22/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/22/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/22/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/22/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688555

Client Sample ID: W-3A-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 07:55

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/22/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/22/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/22/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/22/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/22/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/22/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/22/06 LB
8260B	Bromodichloromethane	ND	1	5	0.42	ug/L	02/22/06 LB
8260B	Bromoform	ND	1	5	2.1	ug/L	02/22/06 LB
8260B	Bromomethane	ND	1	5	0.39	ug/L	02/22/06 LB
8260B	Carbon Disulfide	ND	1	5	0.32	ug/L	02/22/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/22/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/22/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/22/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/22/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/22/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/22/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/22/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/22/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/22/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/22/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/22/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/22/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/22/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/22/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/22/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/22/06 LB
8260B	Isopropylbenzene (Cumene)	19	1	5	0.31	ug/L	02/22/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/22/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/22/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/22/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/22/06 LB
8260B	Methyl-tert-butylether (MTBE)	6.2	1	1	0.63	ug/L	02/22/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/22/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/22/06 LB
8260B	n-Propylbenzene	27	1	5	0.30	ug/L	02/22/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/22/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/22/06 LB
8260B	p-Isopropyltoluene	8.2	1	5	0.14	ug/L	02/22/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/22/06 LB
8260B	sec-Butylbenzene	23	1	5	0.30	ug/L	02/22/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/22/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/22/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688555

Client Sample ID: W-3A-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 07:55

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/22/06 LB
8260B	Tertiary butyl alcohol (TBA)	16	1	10	10	ug/L	02/22/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/22/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/22/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/22/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/22/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/22/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/22/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/22/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/22/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/22/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/22/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	103				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102				%	70 - 135
8260B	Surr3 - Toluene-d8	95				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	122				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688556

Client Sample ID: W-7-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 09:55

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/17/06 BGS
TPH-DHS	Gasoline	60.9	1	50	2.9	ug/L	02/21/06 SU
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	94			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/22/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/22/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/22/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/22/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/22/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/22/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/22/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/22/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/22/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/22/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/22/06 LB
8260B	1,2,4-Trimethylbenzene	1.1	1	5	1.6	ug/L	02/22/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/22/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/22/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/22/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/22/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/22/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/22/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/22/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/22/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/22/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/22/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/22/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/22/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/22/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/22/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/22/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/22/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/22/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/22/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/22/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/22/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688556

Client Sample ID: W-7-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 09:55

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/22/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/22/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/22/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/22/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/22/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/22/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/22/06 LB
8260B	Bromodichloromethane	ND	1	5	0.42	ug/L	02/22/06 LB
8260B	Bromoform	ND	1	5	2.1	ug/L	02/22/06 LB
8260B	Bromomethane	ND	1	5	0.39	ug/L	02/22/06 LB
8260B	Carbon Disulfide	ND	1	5	0.32	ug/L	02/22/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/22/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/22/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/22/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/22/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/22/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/22/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/22/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/22/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/22/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/22/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/22/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/22/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/22/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/22/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/22/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/22/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/22/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/22/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/22/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/22/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/22/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/22/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/22/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/22/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/22/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/22/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/22/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/22/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/22/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/22/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/22/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/22/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688556

Client Sample ID: W-7-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 09:55

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/22/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/22/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/22/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/22/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/22/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/22/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/22/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/22/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/22/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/22/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/22/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/22/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	102				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	103				%	70 - 135
8260B	Surr3 - Toluene-d8	97				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	112				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688557

Client Sample ID: W-8-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 11:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/17/06 BGS
TPH-DHS	Gasoline	192	1	50	2.9	ug/L	02/19/06 SU
Surrogates						Units	Control Limits
TPH-DHS	a,a,a-Trifluorotoluene	148			%		55 - 200
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/21/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/21/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/21/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/21/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/21/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/21/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/21/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/21/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/21/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/21/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/21/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/21/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/21/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/21/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/21/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688557

Client Sample ID: W-8-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 11:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/21/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/21/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/21/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Bromodichloromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	2.1	ug/L	02/21/06 LB
8260B	Bromomethane	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	Carbon Disulfide	ND	1	5	0.32	ug/L	02/21/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/21/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/21/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/21/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/21/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/21/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/21/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/21/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/21/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/21/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/21/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/21/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/21/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/21/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/21/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/21/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/21/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/21/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/21/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688557

Client Sample ID: W-8-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 11:00

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/21/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/21/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/21/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/21/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/21/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/21/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/21/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/21/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/21/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/21/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/21/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	105				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	106				%	70 - 135
8260B	Surr3 - Toluene-d8	99				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	105				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688558

Client Sample ID: MW-504-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 11:20

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/17/06 BGS
TPH-DHS	Gasoline	18000	10	500.0	2.9	ug/L	02/19/06 SU
Surrogates						Units	Control Limits
TPH-DHS	a,a,a-Trifluorotoluene	163				%	55 - 200
8260B	1,1,1,2-Tetrachloroethane	ND	10	50.0	0.37	ug/L	02/22/06 LB
8260B	1,1,1-Trichloroethane	ND	10	50.0	0.20	ug/L	02/22/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	10	50.0	0.46	ug/L	02/22/06 LB
8260B	1,1,2-Trichloroethane	ND	10	50.0	0.31	ug/L	02/22/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	10	50.0	1.3	ug/L	02/22/06 LB
8260B	1,1-Dichloroethane	ND	10	50.0	0.20	ug/L	02/22/06 LB
8260B	1,1-Dichloroethene	ND	10	50.0	0.22	ug/L	02/22/06 LB
8260B	1,1-Dichloropropene	ND	10	50.0	0.29	ug/L	02/22/06 LB
8260B	1,2,3-Trichlorobenzene	ND	10	50.0	0.60	ug/L	02/22/06 LB
8260B	1,2,3-Trichloropropane	ND	10	50.0	0.28	ug/L	02/22/06 LB
8260B	1,2,4-Trichlorobenzene	ND	10	50.0	0.54	ug/L	02/22/06 LB
8260B	1,2,4-Trimethylbenzene	152	10	50.0	1.6	ug/L	02/22/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	10	50.0	0.74	ug/L	02/22/06 LB
8260B	1,2-Dibromoethane	ND	10	50.0	0.46	ug/L	02/22/06 LB
8260B	1,2-Dichlorobenzene	ND	10	50.0	0.23	ug/L	02/22/06 LB
8260B	1,2-Dichloroethane	ND	10	50.0	0.20	ug/L	02/22/06 LB
8260B	1,2-Dichloropropane	ND	10	50.0	1.3	ug/L	02/22/06 LB
8260B	1,3,5-Trimethylbenzene	106	10	50.0	0.72	ug/L	02/22/06 LB
8260B	1,3-Dichlorobenzene	ND	10	50.0	1.1	ug/L	02/22/06 LB
8260B	1,3-Dichloropropane	ND	10	50.0	0.50	ug/L	02/22/06 LB
8260B	1,4-Dichlorobenzene	ND	10	50.0	0.25	ug/L	02/22/06 LB
8260B	1-Chlorohexane	ND	10	50.0	0.26	ug/L	02/22/06 LB
8260B	2,2-Dichloropropane	ND	10	50.0	0.41	ug/L	02/22/06 LB
8260B	2-Butanone (MEK)	ND	10	1000.0	1.5	ug/L	02/22/06 LB
8260B	2-Chloroethyl vinyl ether	ND	10	50.0	0.55	ug/L	02/22/06 LB
8260B	2-Chlorotoluene	ND	10	50.0	0.31	ug/L	02/22/06 LB
8260B	2-Hexanone	ND	10	200.0	0.45	ug/L	02/22/06 LB
8260B	4-Chlorotoluene	ND	10	50.0	0.25	ug/L	02/22/06 LB
8260B	4-Methyl -2- Pentanone (MIBK)	ND	10	100.0	0.62	ug/L	02/22/06 LB
8260B	Acetone	ND	10	1000.0	1.1	ug/L	02/22/06 LB
8260B	Acetonitrile	ND	10	500.0	0.46	ug/L	02/22/06 LB
8260B	Acrolein	ND	10	2000.0	3.3	ug/L	02/22/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #: 688558

Client Sample ID: MW-504-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 11:20

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	10	100.0	1.5	ug/L	02/22/06 LB
8260B	Allyl chloride	ND	10	50.0	0.22	ug/L	02/22/06 LB
8260B	Benzene	675	10	10.0	0.32	ug/L	02/22/06 LB
8260B	Benzyl chloride	ND	10	50.0	0.37	ug/L	02/22/06 LB
8260B	Bromobenzene	ND	10	50.0	0.22	ug/L	02/22/06 LB
8260B	Bromoform	ND	10	50.0	0.44	ug/L	02/22/06 LB
8260B	Bromochloromethane	ND	10	50.0	0.23	ug/L	02/22/06 LB
8260B	Bromomethane	ND	10	50.0	0.42	ug/L	02/22/06 LB
8260B	Chloroform	ND	10	50.0	0.23	ug/L	02/22/06 LB
8260B	Chlorobenzene	ND	10	50.0	0.23	ug/L	02/22/06 LB
8260B	Chloroethane	ND	10	50.0	0.4	ug/L	02/22/06 LB
8260B	Chloroethylene	ND	10	50.0	0.25	ug/L	02/22/06 LB
8260B	Chloromethane	ND	10	50.0	0.55	ug/L	02/22/06 LB
8260B	cis-1,2-Dichloroethene	ND	10	50.0	0.39	ug/L	02/22/06 LB
8260B	cis-1,3-Dichloropropene	ND	10	50.0	0.39	ug/L	02/22/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	10	200.0	0.37	ug/L	02/22/06 LB
8260B	Dibromochloromethane	ND	10	50.0	0.28	ug/L	02/22/06 LB
8260B	Dibromomethane	ND	10	50.0	0.40	ug/L	02/22/06 LB
8260B	Dichlorodifluoromethane	ND	10	50.0	0.42	ug/L	02/22/06 LB
8260B	Ethyl benzene	262	10	50.0	0.24	ug/L	02/22/06 LB
8260B	Ethyl methacrylate	ND	10	500.0	0.50	ug/L	02/22/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	10	10.0	0.17	ug/L	02/22/06 LB
8260B	Hexachlorobutadiene	ND	10	50.0	0.28	ug/L	02/22/06 LB
8260B	Iodomethane	ND	10	50.0	0.69	ug/L	02/22/06 LB
8260B	Isopropyl ether (DIPE)	ND	10	10.0	0.29	ug/L	02/22/06 LB
8260B	Isopropylbenzene (Cumene)	38 J	10	50.0	0.31	ug/L	02/22/06 LB
8260B	m and p-Xylene	391	10	50.0	0.30	ug/L	02/22/06 LB
8260B	Methacrylonitrile	ND	10	350.0	1.2	ug/L	02/22/06 LB
8260B	Methyl methacrylate	ND	10	50.0	0.38	ug/L	02/22/06 LB
8260B	Methylene chloride	ND	10	50.0	0.34	ug/L	02/22/06 LB
8260B	Methyl-tert-butylether (MTBE)	13	10	10.0	0.63	ug/L	02/22/06 LB
8260B	Naphthalene	82	10	50.0	0.94	ug/L	02/22/06 LB
8260B	n-Butylbenzene	ND	10	50.0	1.2	ug/L	02/22/06 LB
8260B	n-Propylbenzene	30 J	10	50.0	0.30	ug/L	02/22/06 LB
8260B	o-Xylene	120	10	50.0	0.18	ug/L	02/22/06 LB
8260B	Pentachloroethane	ND	10	50.0	2.6	ug/L	02/22/06 LB
8260B	p-Isopropyltoluene	16 J	10	50.0	0.14	ug/L	02/22/06 LB
8260B	Propionitrile	ND	10	1000.0	1.7	ug/L	02/22/06 LB
8260B	sec-Butylbenzene	ND	10	50.0	0.30	ug/L	02/22/06 LB
8260B	Styrene	ND	10	50.0	0.16	ug/L	02/22/06 LB
8260B	Tert-amylmethylether (TAME)	ND	10	10.0	0.28	ug/L	02/22/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #: 688558

Client Sample ID: MW-504-0206

Matrix: WATER

Date Sampled: 02/16/2006

Time Sampled: 11:20

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	10	50.0	0.15	ug/L	02/22/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	10	100.0	10	ug/L	02/22/06 LB
8260B	Tetrachloroethene	ND	10	50.0	0.62	ug/L	02/22/06 LB
8260B	Toluene	76	10	50.0	0.10	ug/L	02/22/06 LB
8260B	trans-1,2-Dichloroethene	ND	10	50.0	0.35	ug/L	02/22/06 LB
8260B	trans-1,3-Dichloropropene	ND	10	50.0	0.48	ug/L	02/22/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	10	200.0	0.41	ug/L	02/22/06 LB
8260B	Trichloroethene	ND	10	50.0	0.14	ug/L	02/22/06 LB
8260B	Trichlorofluoromethane	ND	10	50.0	0.82	ug/L	02/22/06 LB
8260B	Vinyl acetate	ND	10	500.0	0.3	ug/L	02/22/06 LB
8260B	Vinyl chloride	ND	10	50.0	0.71	ug/L	02/22/06 LB
8260B	Xylenes, total	511	10	50.0	0.48	ug/L	02/22/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	104				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	102				%	70 - 135
8260B	Surr3 - Toluene-d8	95				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	109				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Order #:

688559

Client Sample ID:

Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
7199	Hexavalent Chromium	ND	1	0.3	0.04	ug/L	02/17/06 BGS
TPH-DHS	Gasoline	ND	1	50	2.9	ug/L	02/19/06 SU
Surrogates							
TPH-DHS	a,a,a-Trifluorotoluene	106			%	55 - 200	
8260B	1,1,1,2-Tetrachloroethane	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	1,1,1-Trichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1,2,2-Tetrachloroethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,1,2-Trichloroethane	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	1,1,2-Trichlorotrifluoroethane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,1-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,1-Dichloroethene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	1,1-Dichloropropene	ND	1	5	0.29	ug/L	02/21/06 LB
8260B	1,2,3-Trichlorobenzene	ND	1	5	0.60	ug/L	02/21/06 LB
8260B	1,2,3-Trichloropropane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	1,2,4-Trichlorobenzene	ND	1	5	0.54	ug/L	02/21/06 LB
8260B	1,2,4-Trimethylbenzene	ND	1	5	1.6	ug/L	02/21/06 LB
8260B	1,2-Dibromo-3-chloropropane	ND	1	5	0.74	ug/L	02/21/06 LB
8260B	1,2-Dibromoethane	ND	1	5	0.46	ug/L	02/21/06 LB
8260B	1,2-Dichlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	1,2-Dichloroethane	ND	1	5	0.20	ug/L	02/21/06 LB
8260B	1,2-Dichloropropane	ND	1	5	1.3	ug/L	02/21/06 LB
8260B	1,3,5-Trimethylbenzene	ND	1	5	0.72	ug/L	02/21/06 LB
8260B	1,3-Dichlorobenzene	ND	1	5	1.1	ug/L	02/21/06 LB
8260B	1,3-Dichloropropane	ND	1	5	0.50	ug/L	02/21/06 LB
8260B	1,4-Dichlorobenzene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	1-Chlorohexane	ND	1	5	0.26	ug/L	02/21/06 LB
8260B	2,2-Dichloropropane	ND	1	5	0.41	ug/L	02/21/06 LB
8260B	2-Butanone (MEK)	ND	1	100	1.5	ug/L	02/21/06 LB
8260B	2-Chloroethyl vinyl ether	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	2-Chlorotoluene	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	2-Hexanone	ND	1	20	0.45	ug/L	02/21/06 LB
8260B	4-Chlorotoluene	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	4-Methyl -2- Pentanone (MIBK	ND	1	10	0.62	ug/L	02/21/06 LB
8260B	Acetone	ND	1	100	1.1	ug/L	02/21/06 LB
8260B	Acetonitrile	ND	1	50	0.46	ug/L	02/21/06 LB
8260B	Acrolein	ND	1	200	3.3	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #:

688559

Client Sample ID:

Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	Acrylonitrile	ND	1	10	1.5	ug/L	02/21/06 LB
8260B	Allyl chloride	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Benzene	ND	1	1	0.32	ug/L	02/21/06 LB
8260B	Benzyl chloride	ND	1	5	0.37	ug/L	02/21/06 LB
8260B	Bromobenzene	ND	1	5	0.22	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	0.44	ug/L	02/21/06 LB
8260B	Bromochloromethane	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Bromodichloromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Bromoform	ND	1	5	2.1	ug/L	02/21/06 LB
8260B	Bromomethane	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	Carbon Disulfide	ND	1	5	0.32	ug/L	02/21/06 LB
8260B	Chlorobenzene	ND	1	5	0.23	ug/L	02/21/06 LB
8260B	Chloroethane	ND	1	5	0.4	ug/L	02/21/06 LB
8260B	Chloroform	ND	1	5	0.25	ug/L	02/21/06 LB
8260B	Chloromethane	ND	1	5	0.55	ug/L	02/21/06 LB
8260B	cis-1,2-Dichloroethene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,3-Dichloropropene	ND	1	5	0.39	ug/L	02/21/06 LB
8260B	cis-1,4-Dichloro-2-butene	ND	1	20	0.37	ug/L	02/21/06 LB
8260B	Dibromochloromethane	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Dibromomethane	ND	1	5	0.40	ug/L	02/21/06 LB
8260B	Dichlorodifluoromethane	ND	1	5	0.42	ug/L	02/21/06 LB
8260B	Ethyl benzene	ND	1	5	0.24	ug/L	02/21/06 LB
8260B	Ethyl methacrylate	ND	1	50	0.50	ug/L	02/21/06 LB
8260B	Ethyl-tertbutylether (ETBE)	ND	1	1	0.17	ug/L	02/21/06 LB
8260B	Hexachlorobutadiene	ND	1	5	0.28	ug/L	02/21/06 LB
8260B	Iodomethane	ND	1	5	0.69	ug/L	02/21/06 LB
8260B	Isopropyl ether (DIPE)	ND	1	1	0.29	ug/L	02/21/06 LB
8260B	Isopropylbenzene (Cumene)	ND	1	5	0.31	ug/L	02/21/06 LB
8260B	m and p-Xylene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Methacrylonitrile	ND	1	35	1.2	ug/L	02/21/06 LB
8260B	Methyl methacrylate	ND	1	5	0.38	ug/L	02/21/06 LB
8260B	Methylene chloride	ND	1	5	0.34	ug/L	02/21/06 LB
8260B	Methyl-tert-butylether (MTBE)	ND	1	1	0.63	ug/L	02/21/06 LB
8260B	Naphthalene	ND	1	5	0.94	ug/L	02/21/06 LB
8260B	n-Butylbenzene	ND	1	5	1.2	ug/L	02/21/06 LB
8260B	n-Propylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	o-Xylene	ND	1	5	0.18	ug/L	02/21/06 LB
8260B	Pentachloroethane	ND	1	5	2.6	ug/L	02/21/06 LB
8260B	p-Isopropyltoluene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Propionitrile	ND	1	100	1.7	ug/L	02/21/06 LB
8260B	sec-Butylbenzene	ND	1	5	0.30	ug/L	02/21/06 LB
8260B	Styrene	ND	1	5	0.16	ug/L	02/21/06 LB
8260B	Tert-amylmethylether (TAME)	ND	1	1	0.28	ug/L	02/21/06 LB

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits



Order #:

688559

Client Sample ID:

Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
8260B	tert-Butylbenzene	ND	1	5	0.15	ug/L	02/21/06 LB
8260B	Tertiary butyl alcohol (TBA)	ND	1	10	10	ug/L	02/21/06 LB
8260B	Tetrachloroethene	ND	1	5	0.62	ug/L	02/21/06 LB
8260B	Toluene	ND	1	5	0.10	ug/L	02/21/06 LB
8260B	trans-1,2-Dichloroethene	ND	1	5	0.35	ug/L	02/21/06 LB
8260B	trans-1,3-Dichloropropene	ND	1	5	0.48	ug/L	02/21/06 LB
8260B	trans-1,4-Dichloro-2-butene	ND	1	20	0.41	ug/L	02/21/06 LB
8260B	Trichloroethene	ND	1	5	0.14	ug/L	02/21/06 LB
8260B	Trichlorofluoromethane	ND	1	5	0.82	ug/L	02/21/06 LB
8260B	Vinyl acetate	ND	1	50	0.3	ug/L	02/21/06 LB
8260B	Vinyl chloride	ND	1	5	0.71	ug/L	02/21/06 LB
8260B	Xylenes, total	ND	1	5	0.48	ug/L	02/21/06 LB
Surrogates						Units	Control Limits
8260B	Surr1 - Dibromofluoromethane	102				%	70 - 135
8260B	Surr2 - 1,2-Dichloroethane-d4	100				%	70 - 135
8260B	Surr3 - Toluene-d8	99				%	70 - 135
8260B	Surr4 - p-Bromofluorobenzene	105				%	70 - 135

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor

ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

ASSOCIATED LABORATORIES

Analytical Results Report



Appendix D

Historical Groundwater Analytical Results



TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-101	6/1/1988	—	88.66	ND	0	46.32	134.98
	9/1/1988	—	89.29	ND	0	45.69	134.98
	12/1/1988	—	90.10	ND	0	44.88	134.98
	3/1/1989	—	90.28	ND	0	44.70	134.98
	12/1/1989	—	90.29	ND	0	44.69	134.98
	3/1/1991	—	91.09	ND	0	43.89	134.98
	6/1/1991	—	90.24	ND	0	44.74	134.98
	12/1/1991	—	90.40	ND	0	44.83	135.23
	3/1/1992	—	89.87	ND	0	45.36	135.23
	6/1/1992	—	88.47	ND	0	46.76	135.23
	9/1/1992	—	88.60	ND	0	46.63	135.23
	12/1/1992	—	88.69	ND	0	46.54	135.23
	3/1/1993	—	87.35	ND	0	47.88	135.23
	9/1/1993	—	82.34	82.33	0.01	52.90	135.23
	11/1/1993	—	80.83	80.82	0.01	54.41	135.23
	3/1/1994	—	78.10	78.08	0.02	57.15	135.23
	6/1/1994	—	76.38	76.37	0.01	58.86	135.23
	9/1/1994	—	76.64	76.63	0.01	58.60	135.23
	12/1/1994	—	77.57	ND	0	57.66	135.23
	3/1/1995	—	77.46	ND	0	57.77	135.23
	9/1/1995	—	74.75	ND	0	60.48	135.23
	12/1/1995	—	75.15	ND	0	60.08	135.23
	7/1/1996	—	74.55	ND	0	60.68	135.23
	12/1/1996	—	75.61	ND	0	59.62	135.23
	1/1/1998	—	74.72	ND	0	60.51	135.23
	8/1/1998	—	73.45	ND	0	61.78	135.23
	1/1/1999	—	74.03	ND	0	61.20	135.23
	7/1/1999	—	75.53	ND	0	59.70	135.23
	1/1/2000	—	79.40	ND	0	55.83	135.23
	7/1/2000	—	81.20	ND	0	54.03	135.23
	2/1/2001	—	82.09	ND	0	53.14	135.23
	7/1/2001	—	81.60	ND	0	53.63	135.23
	5/1/2002	—	83.10	ND	0	52.13	135.23
	9/1/2002	—	85.49	ND	0	49.74	135.23
	6/28/2004	94.40	Dry	ND	0	Dry	135.23

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-101	10/4/2005	92.70	Dry	ND	0	Dry	135.23
	2/13/2006	90.20	Dry	ND	0	Dry	135.23
MW-103	6/1/1988	—	93.36	ND	0	43.59	136.95
	9/1/1988	—	93.82	ND	0	43.13	136.95
	12/1/1988	—	94.76	ND	0	42.19	136.95
	3/1/1989	—	95.68	ND	0	41.27	136.95
	6/1/1989	—	95.92	ND	0	41.03	136.95
	9/1/1989	—	96.20	ND	0	40.75	136.95
	12/1/1989	—	96.90	ND	0	40.05	136.95
	3/1/1991	—	96.51	ND	0	40.44	136.95
	6/1/1991	—	96.08	ND	0	40.87	136.95
	9/1/1991	—	95.92	ND	0	41.03	136.95
	12/1/1991	—	95.91	ND	0	41.04	136.95
	3/1/1992	—	95.06	ND	0	41.89	136.95
	6/1/1992	—	93.90	ND	0	43.05	136.95
	9/1/1992	—	93.73	ND	0	43.22	136.95
	12/1/1992	—	93.99	ND	0	42.96	136.95
	3/1/1993	—	93.15	ND	0	43.80	136.95
	5/1/1993	—	90.90	ND	0	46.05	136.95
	9/1/1993	—	88.67	ND	0	48.28	136.95
	11/1/1993	—	87.24	ND	0	49.71	136.95
	3/1/1994	—	84.86	84.85	0.01	52.10	136.95
	6/1/1994	—	83.15	83.14	0.01	53.81	136.95
	9/1/1994	—	82.70	82.69	0.01	54.26	136.95
	12/1/1994	—	83.17	ND	0	53.78	136.95
	3/1/1995	—	82.65	ND	0	54.30	136.95
	9/1/1995	—	81.03	ND	0	55.92	136.95
	12/1/1995	—	81.21	ND	0	55.74	136.95
	7/1/1996	—	80.41	ND	0	56.54	136.95
	12/1/1996	—	81.24	ND	0	55.71	136.95
	1/1/1998	—	80.55	ND	0	56.40	136.95
	8/1/1998	—	79.51	ND	0	57.44	136.95
	1/1/1999	—	79.88	ND	0	57.07	136.95
	7/1/1999	—	80.74	ND	0	56.21	136.95
	1/1/2000	—	83.70	ND	0	53.25	136.95

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-103	7/1/2000	—	85.80	ND	0	51.15	136.95
	2/1/2001	—	87.01	ND	0	49.94	136.95
	7/1/2001	—	86.55	ND	0	50.40	136.95
	5/1/2002	—	87.88	ND	0	49.07	136.95
	9/1/2002	—	89.31	ND	0	47.64	136.95
	6/28/2004	99.00	94.34	94.32	0.02	40.91	135.23
	10/4/2005	94.55	Dry	ND	0	Dry	136.95
	2/13/2006	94.38	Dry	ND	0	Dry	136.95
MW-104 Abandoned	6/1/1988	—	87.95	ND	0	53.11	141.06
	9/1/1988	—	88.25	ND	0	52.81	141.06
	12/1/1988	—	88.67	ND	0	52.39	141.06
	3/1/1989	—	89.15	ND	0	51.91	141.06
	6/1/1989	—	89.57	ND	0	51.49	141.06
	9/1/1989	—	89.90	ND	0	51.16	141.06
	12/1/1989	—	90.17	ND	0	50.89	141.06
	3/1/1990	—	90.62	ND	0	50.44	141.06
	6/1/1990	—	90.82	ND	0	50.24	141.06
	9/1/1990	—	90.96	ND	0	50.10	141.06
	12/1/1990	—	91.13	ND	0	49.93	141.06
	3/1/1991	—	91.12	ND	0	49.94	141.06
	6/1/1991	—	91.02	ND	0	50.04	141.06
	9/1/1991	—	90.76	ND	0	50.30	141.06
	12/1/1991	—	90.63	ND	0	50.43	141.06
	3/1/1992	—	90.45	ND	0	50.61	141.06
	6/1/1992	—	89.90	ND	0	51.16	141.06
	9/1/1992	—	89.33	ND	0	51.73	141.06
	12/1/1992	—	89.10	ND	0	51.96	141.06
	3/1/1993	—	88.71	ND	0	52.35	141.06
	5/1/1993	—	87.55	ND	0	53.51	141.06
	9/1/1993	—	86.15	ND	0	54.91	141.06
	11/1/1993	—	84.05	ND	0	57.01	141.06
	3/1/1994	—	82.33	ND	0	58.73	141.06
	6/1/1994	—	80.55	ND	0	60.51	141.06
	9/1/1994	—	79.37	79.36	0.01	61.70	141.06
	12/1/1994	—	79.50	ND	0	61.56	141.06

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-104 Abandoned	3/1/1995	—	79.32	ND	0	61.74	141.06
	9/1/1995	—	77.26	ND	0	63.80	141.06
	12/1/1995	—	77.21	ND	0	63.85	141.06
	7/1/1996	—	76.75	ND	0	64.31	141.06
	12/1/1996	—	77.38	ND	0	63.68	141.06
	1/1/1998	—	75.58	ND	0	65.48	141.06
	8/1/1998	—	75.58	ND	0	65.48	141.06
	1/1/1999	—	75.91	ND	0	65.15	141.06
	7/1/1999	—	76.32	ND	0	64.84	141.16
MW-104A	1/1/2000	—	78.86	ND	0	62.30	141.16
	7/1/2000	—	81.50	ND	0	59.66	141.16
	2/1/2001	—	82.89	ND	0	58.27	141.16
	7/1/2001	—	82.38	ND	0	58.78	141.16
	5/1/2002	—	83.64	ND	0	57.52	141.16
	9/1/2002	—	84.33	ND	0	56.83	141.16
	6/28/2004	100.00	88.16	ND	0	53.00	141.16
	10/4/2005	97.60	89.85	ND	0	51.31	141.16
	2/13/2006	98.05	89.66	ND	0	51.50	141.16
	7/1/1996	—	73.85	ND	0	64.78	138.63
MW-105	12/1/1996	—	75.12	ND	0	63.51	138.63
	1/1/1998	—	74.12	ND	0	64.51	138.63
	8/1/1998	—	72.66	ND	0	65.97	138.63
	1/1/1999	—	73.15	ND	0	65.48	138.63
	7/1/1999	—	74.95	ND	0	63.68	138.63
	1/1/2000	—	78.91	ND	0	59.72	138.63
	7/1/2000	—	80.72	ND	0	57.91	138.63
	2/1/2001	—	81.68	ND	0	56.95	138.63
	7/1/2001	—	80.95	ND	0	57.68	138.63
	5/1/2002	—	82.59	ND	0	56.04	138.63
	9/1/2002	—	84.92	ND	0	53.71	138.63
	6/28/2004	100.00	90.69	ND	0	47.94	138.63

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-105	10/4/2005	100.15	91.03	ND	0	47.60	138.63
	2/13/2006	100.10	89.95	ND	0	48.68	138.63
MW-106	7/1/1996	—	81.86	ND	0	66.55	148.41
	12/1/1996	—	82.05	ND	0	66.36	148.41
	1/1/1998	—	81.29	ND	0	67.12	148.41
	8/1/1998	—	80.47	ND	0	67.94	148.41
	1/1/1999	—	80.48	ND	0	67.93	148.41
	7/1/1999	—	80.92	ND	0	67.49	148.41
	1/1/2000	—	82.65	ND	0	65.76	148.41
	7/1/2000	—	85.18	ND	0	63.23	148.41
	2/1/2001	—	86.68	ND	0	61.73	148.41
	7/1/2001	—	86.89	ND	0	61.52	148.41
	5/1/2002	—	88.19	ND	0	60.22	148.41
	9/1/2002	—	88.86	ND	0	59.55	148.41
	6/28/2004	106.00	93.21	ND	0	55.20	148.41
	10/4/2005	Well re-installed following Feb. 2006 sampling event					148.41
	2/13/2006						148.41
MW-107	7/1/1996	—	89.92	ND	0	59.01	148.93
	12/1/1996	—	89.85	ND	0	59.08	148.93
	1/1/1998	—	88.99	ND	0	59.94	148.93
	8/1/1998	—	88.05	ND	0	60.88	148.93
	1/1/1999	—	88.14	ND	0	60.79	148.93
	7/1/1999	—	88.45	ND	0	60.48	148.93
	1/1/2000	—	90.00	ND	0	58.93	148.93
	7/1/2000	—	91.90	ND	0	57.03	148.93
	2/1/2001	—	93.51	ND	0	55.42	148.93
	7/1/2001	—	93.92	ND	0	55.01	148.93
	5/1/2002	—	95.2	ND	0	53.73	148.93
	9/1/2002	—	95.92	ND	0	53.01	148.93
	6/28/2004	108.00	99.23	ND	0	49.70	148.93
	10/4/2005	Well re-installed following Feb. 2006 sampling event					148.93
	2/13/2006						148.93
MW-201	6/1/1988	—	90.05	ND	0	42.86	132.91
	9/1/1988	—	90.77	ND	0	42.14	132.91
	12/1/1988	—	92.24	ND	0	40.67	132.91

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-201	3/1/1989	—	92.84	ND	0	40.07	132.91
	6/1/1989	—	93.00	ND	0	39.91	132.91
	9/1/1989	—	93.60	ND	0	39.31	132.91
	12/1/1989	—	94.51	ND	0	38.40	132.91
	3/1/1990	—	94.91	ND	0	38.00	132.91
	6/1/1990	—	94.48	ND	0	38.43	132.91
	9/1/1990	—	94.85	ND	0	38.06	132.91
	12/1/1990	—	95.43	ND	0	37.48	132.91
	3/1/1991	—	93.88	ND	0	39.03	132.91
	6/1/1991	—	93.05	ND	0	39.86	132.91
	9/1/1991	—	93.57	ND	0	39.34	132.91
	12/1/1991	—	92.90	ND	0	40.01	132.91
	3/1/1992	—	91.30	ND	0	41.61	132.91
	6/1/1992	—	90.10	ND	0	42.81	132.91
	9/1/1992	—	90.40	ND	0	42.51	132.91
	12/1/1992	—	90.29	ND	0	42.62	132.91
	3/1/1993	—	88.84	ND	0	44.07	132.91
	5/1/1993	—	86.33	ND	0	46.58	132.91
	9/1/1993	—	84.47	84.45	0.02	48.46	132.91
	12/1/1993	—	82.75	82.74	0.01	50.17	132.91
	3/1/1994	—	79.76	79.75	0.01	53.16	132.91
	6/1/1994	—	78.06	78.05	0.01	54.86	132.91
	9/1/1994	—	78.46	78.45	0.01	54.46	132.91
	12/1/1994	—	79.10	ND	0	53.81	132.91
	3/1/1995	—	77.87	ND	0	55.04	132.91
	9/1/1995	—	76.53	ND	0	56.38	132.91
	12/1/1995	—	76.79	ND	0	56.12	132.91
	7/1/1996	—	76.00	ND	0	56.91	132.91
	12/1/1996	—	76.93	ND	0	55.98	132.91
	1/1/1998	—	76.02	ND	0	56.89	132.91
	8/1/1998	—	75.01	ND	0	57.90	132.91
	1/1/1999	—	75.36	ND	0	57.55	132.91
	7/1/1999	—	76.88	ND	0	56.03	132.91
	1/1/2000	—	79.50	ND	0	53.41	132.91
	7/1/2000	—	82.44	ND	0	50.47	132.91

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-201	2/1/2001	—	83.32	ND	0	49.59	132.91
	7/1/2001	—	83.00	ND	0	49.91	132.91
	5/1/2002	—	84.45	ND	0	48.46	132.91
	9/1/2002	—	86.96	ND	0	45.95	132.91
	6/28/2004	103.00	92.13	ND	0	40.78	132.91
	10/4/2005	101.52	93.07	ND	0	39.84	132.91
	2/13/2006	93.69	91.80	ND	0	41.11	132.91
MW-202	6/1/1988	—	Dry	ND	0	NA	137.89
	9/1/1988	—	Dry	ND	0	NA	137.89
	12/1/1988	—	Dry	ND	0	NA	137.89
	3/1/1989	—	Dry	ND	0	NA	137.89
	6/1/1989	—	Dry	ND	0	NA	137.89
	9/1/1989	—	Dry	ND	0	NA	137.89
	12/1/1989	—	Dry	ND	0	NA	137.89
	3/1/1990	—	Dry	ND	0	NA	137.89
	9/1/1990	—	Dry	ND	0	NA	137.89
	12/1/1990	—	Dry	ND	0	NA	137.89
	3/1/1991	—	Dry	ND	0	NA	137.89
	6/1/1991	—	Dry	ND	0	NA	137.89
	9/1/1991	—	Dry	ND	0	NA	137.89
	12/1/1991	—	Dry	ND	0	NA	137.89
	3/1/1992	—	Dry	ND	0	NA	137.89
	6/1/1992	—	Dry	ND	0	NA	137.89
	9/1/1992	—	Dry	ND	0	NA	137.89
	12/1/1992	—	Dry	ND	0	NA	137.89
	3/1/1993	—	Dry	ND	0	NA	137.89
	5/1/1993	—	Dry	ND	0	NA	137.89
	9/1/1993	—	89.36	89.35	0.01	48.54	137.89
	11/1/1993	—	87.85	ND	0	50.04	137.89
	3/1/1994	—	85.36	85.35	0.01	52.54	137.89
	6/1/1994	—	83.53	83.52	0.01	54.37	137.89
	9/1/1994	—	83.32	83.31	0.01	54.58	137.89
	12/1/1994	—	83.88	83.87	0.01	54.02	137.89
	3/1/1995	—	83.10	ND	0	54.79	137.89
	9/1/1995	—	81.44	ND	0	56.45	137.89

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-202	12/1/1995	—	81.71	ND	0	56.18	137.89
	7/1/1996	—	80.90	ND	0	56.99	137.89
	12/1/1996	—	81.78	ND	0	56.11	137.89
	1/1/1998	—	81.00	ND	0	56.89	137.89
	8/1/1998	—	79.93	ND	0	57.96	137.89
	1/1/1999	—	83.35	ND	0	54.54	137.89
	7/1/1999	—	81.37	ND	0	56.52	137.89
	1/1/2000	—	84.70	ND	0	53.19	137.89
	7/1/2000	—	86.78	ND	0	51.11	137.89
	2/1/2001	—	87.86	ND	0	50.03	137.89
	7/1/2001	—	87.49	ND	0	50.40	137.89
	5/1/2002	—	88.88	ND	0	49.01	137.89
	9/1/2002	—	90.59	ND	0	47.30	137.89
	6/28/2004	105.00	Dry	ND	0	Dry	137.89
	10/4/2005	92.59	Dry	ND	0	Dry	137.89
	2/13/2006	92.64	Dry	ND	0	Dry	137.89
MW-203	6/1/1988	—	95.98	ND	0	47.91	143.89
	9/1/1988	—	96.30	ND	0	47.59	143.89
	12/1/1988	—	96.76	ND	0	47.13	143.89
	3/1/1989	—	97.15	ND	0	46.74	143.89
	6/1/1989	—	97.50	ND	0	46.39	143.89
	9/1/1989	—	97.85	ND	0	46.04	143.89
	12/1/1989	—	98.19	ND	0	45.70	143.89
	3/1/1990	—	98.72	ND	0	45.17	143.89
	9/1/1990	—	99.09	ND	0	44.80	143.89
	12/1/1990	—	99.55	ND	0	44.34	143.89
	3/1/1991	—	99.23	ND	0	44.66	143.89
	6/1/1991	—	99.19	ND	0	44.70	143.89
	9/1/1991	—	98.93	ND	0	44.96	143.89
	12/1/1991	—	98.84	ND	0	45.05	143.89
	3/1/1992	—	98.39	ND	0	45.50	143.89
	6/1/1992	—	97.76	ND	0	46.13	143.89
	9/1/1992	—	97.47	ND	0	46.42	143.89
	12/1/1992	—	97.50	ND	0	46.39	143.89
	3/1/1993	—	97.13	ND	0	46.76	143.89

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-203	5/1/1993	—	96.14	ND	0	47.75	143.89
	9/1/1993	—	95.81	ND	0	48.08	143.89
	11/1/1993	—	93.84	93.83	0.01	50.06	143.89
	3/1/1994	—	92.27	92.25	0.02	51.64	143.89
	6/1/1994	—	90.68	90.67	0.01	53.22	143.89
	9/1/1994	—	89.61	89.60	0.01	54.29	143.89
	12/1/1994	—	89.41	ND	0	54.48	143.89
	3/1/1995	—	89.03	ND	0	54.86	143.89
	9/1/1995	—	87.47	ND	0	56.42	143.89
	12/1/1995	—	87.38	ND	0	56.51	143.89
	7/1/1996	—	86.53	ND	0	57.36	143.89
	12/1/1996	—	87.03	ND	0	56.86	143.89
	1/1/1998	—	86.39	ND	0	57.50	143.89
	8/1/1998	—	85.38	ND	0	58.51	143.89
	1/1/1999	—	85.72	ND	0	58.17	143.89
	7/1/1999	—	86.30	ND	0	57.59	143.89
	1/1/2000	—	88.54	ND	0	55.35	143.89
	7/1/2000	—	90.60	ND	0	53.29	143.89
	2/1/2001	—	91.81	ND	0	52.08	143.89
	7/1/2001	—	91.76	ND	0	52.13	143.89
	5/1/2002	—	92.96	ND	0	50.93	143.89
	9/1/2002	—	93.62	ND	0	50.27	143.89
	6/28/2004	107.00	96.93	ND	0	46.96	143.89
	10/4/2005	Well re-installed following Feb. 2006 sampling event					143.89
	2/13/2006						143.89
MW-204*	6/1/1988	—	94.95	ND	0	45.19	140.14
	9/1/1988	—	95.43	ND	0	44.71	140.14
	12/1/1988	—	96.57	ND	0	43.57	140.14
	3/1/1989	—	97.53	ND	0	42.61	140.14
	6/1/1989	—	97.68	ND	0	42.46	140.14
	9/1/1989	—	98.00	ND	0	42.14	140.14
	12/1/1989	—	98.70	ND	0	41.44	140.14
	3/1/1990	—	99.19	ND	0	40.95	140.14
	6/1/1990	—	98.95	ND	0	41.19	140.14
	9/1/1990	—	99.08	ND	0	41.06	140.14

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-204*	12/1/1990	—	99.50	ND	0	40.64	140.14
	3/1/1991	—	98.61	ND	0	41.53	140.14
	6/1/1991	—	97.85	ND	0	42.29	140.14
	9/1/1991	—	97.59	ND	0	42.55	140.14
	12/1/1991	—	97.50	ND	0	42.64	140.14
	3/1/1992	—	96.45	ND	0	43.69	140.14
	6/1/1992	—	95.07	ND	0	45.07	140.14
	9/1/1992	—	94.91	ND	0	45.23	140.14
	12/1/1992	—	95.08	ND	0	45.06	140.14
	3/1/1993	—	94.03	ND	0	46.11	140.14
	5/1/1993	—	91.83	ND	0	48.31	140.14
	9/1/1993	—	89.56	89.55	0.01	50.59	140.14
	11/1/1993	—	88.10	88.09	0.01	52.05	140.14
	3/1/1994	—	85.90	85.89	0.01	54.25	140.14
	6/1/1994	—	84.09	ND	0	56.05	140.14
	9/1/1994	—	83.71	83.70	0.01	56.44	140.14
	12/1/1994	—	84.31	ND	0	55.83	140.14
	3/1/1995	—	83.76	ND	0	56.38	140.14
	9/1/1995	—	81.98	ND	0	58.16	140.14
	12/1/1995	—	82.23	ND	0	57.91	140.14
	7/1/1996	—	81.50	ND	0	58.64	140.14
	12/1/1996	—	82.42	ND	0	57.72	140.14
	1/1/1998	—	81.69	ND	0	58.45	140.14
	8/1/1998	—	80.57	ND	0	59.57	140.14
	1/1/1999	—	80.95	ND	0	59.19	140.14
	7/1/1999	—	81.93	ND	0	58.21	140.14
	1/1/2000	—	84.80	ND	0	55.34	140.14
	7/1/2000	—	87.17	ND	0	52.97	140.14
	2/1/2001	—	88.29	ND	0	51.85	140.14
	7/1/2001	—	87.93	ND	0	52.21	140.14
	5/1/2002	—	89.28	ND	0	50.86	140.14
	9/1/2002	—	90.80	ND	0	49.34	140.14
6/28/2004	99.50	96.39	ND	0	43.75	140.14	
10/4/2005	99.68	97.86	ND	0	42.28	140.14	
2/13/2006	96.72	95.24	ND	0	NA	NM	

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-205	6/1/1988	—	90.15	ND	0	48.02	138.17
	9/1/1988	—	90.67	ND	0	47.50	138.17
	12/1/1988	—	91.92	ND	0	46.25	138.17
	3/1/1989	—	92.88	ND	0	45.29	138.17
	6/1/1989	—	92.80	ND	0	45.37	138.17
	9/1/1989	—	93.20	ND	0	44.97	138.17
	12/1/1989	—	94.05	ND	0	44.12	138.17
	3/1/1990	—	94.20	ND	0	43.97	138.17
	6/1/1990	—	94.12	ND	0	44.05	138.17
	9/1/1990	—	93.85	ND	0	44.32	138.17
	12/1/1990	—	94.80	ND	0	43.37	138.17
	3/1/1991	—	93.49	ND	0	44.68	138.17
	6/1/1991	—	92.64	ND	0	45.53	138.17
	9/1/1991	—	92.45	ND	0	45.72	138.17
	12/1/1991	—	92.65	ND	0	45.39	138.04
	3/1/1992	—	90.92	ND	0	47.12	138.04
	6/1/1992	—	89.59	ND	0	48.45	138.04
	9/1/1992	—	89.61	ND	0	48.43	138.04
	12/1/1992	—	89.65	ND	0	48.39	138.04
	3/1/1993	—	88.60	ND	0	49.44	138.04
	5/1/1993	—	85.92	ND	0	52.12	138.04
	9/1/1993	—	83.56	83.55	0.01	54.49	138.04
	11/1/1993	—	82.00	ND	0	56.04	138.04
	3/1/1994	—	79.55	79.54	0.01	58.50	138.04
	6/1/1994	—	77.75	77.74	0.01	60.30	138.04
	9/1/1994	—	77.80	77.79	0.01	60.25	138.04
	12/1/1994	—	78.76	ND	0	59.28	138.04
	3/1/1995	—	77.80	ND	0	60.24	138.04
	9/1/1995	—	75.91	ND	0	62.13	138.04
	12/1/1995	—	76.28	ND	0	61.76	138.04
	7/1/1996	—	75.74	ND	0	62.30	138.04
	12/1/1996	—	76.09	ND	0	61.95	138.04
	1/1/1998	—	75.26	ND	0	62.78	138.04
	8/1/1998	—	73.96	ND	0	64.08	138.04
	1/1/1999	—	74.59	ND	0	63.45	138.04

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-205	7/1/1999	—	75.95	ND	0	62.09	138.04
	1/1/2000	—	79.45	ND	0	58.59	138.04
	7/1/2000	—	81.60	ND	0	56.44	138.04
	2/1/2001	—	82.57	ND	0	55.47	138.04
	7/1/2001	—	82.01	ND	0	56.03	138.04
	5/1/2002	—	83.52	ND	0	54.52	138.04
	9/1/2002	—	85.68	ND	0	52.36	138.04
	6/28/2004	103.00	91.31	ND	0	46.73	138.04
	10/4/2005	98.25	92.00	ND	0	46.04	138.04
	2/13/2006	98.32	90.92	ND	0	47.12	138.04
MW-206 Abandoned	6/1/1988	—	92.37	ND	0	37.56	129.93
	9/1/1988	—	93.37	ND	0	36.56	129.93
	12/1/1988	—	94.93	ND	0	35.00	129.93
	3/1/1989	—	95.20	ND	0	34.73	129.93
	6/1/1989	—	95.55	ND	0	34.38	129.93
	9/1/1989	—	96.88	ND	0	33.05	129.93
	12/1/1989	—	94.75	ND	0	35.18	129.93
	3/1/1990	—	97.75	ND	0	32.18	129.93
	6/1/1990	—	97.48	ND	0	32.45	129.93
	9/1/1990	—	98.02	ND	0	31.91	129.93
	12/1/1990	—	98.64	ND	0	31.29	129.93
	3/1/1991	—	96.92	ND	0	33.01	129.93
	6/1/1991	—	96.11	ND	0	33.82	129.93
	9/1/1991	—	96.41	ND	0	33.52	129.93
	12/1/1991	—	96.12	ND	0	33.81	129.93
	3/1/1992	—	94.32	ND	0	35.61	129.93
	6/1/1992	—	93.45	ND	0	36.48	129.93
	9/1/1992	—	93.97	ND	0	35.96	129.93
	12/1/1992	—	93.50	ND	0	36.43	129.93
	3/1/1993	—	91.91	ND	0	38.02	129.93
	5/1/1993	—	89.60	ND	0	40.33	129.93
	9/1/1993	—	87.91	87.90	0.01	42.03	129.93
	12/1/1993	—	86.43	86.41	0.02	43.52	129.93
	3/1/1994	—	82.89	82.88	0.01	47.05	129.93
	6/1/1994	—	81.30	81.29	0.01	48.64	129.93

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-206 Abandoned	9/1/1994	—	81.81	81.80	0.01	48.13	129.93
	12/1/1994	—	82.00	ND	0	47.93	129.93
	3/1/1995	—	80.33	ND	0	49.60	129.93
	9/1/1995	—	79.68	ND	0	50.25	129.93
	12/1/1995	—	79.65	ND	0	50.28	129.93
	7/1/1996	—	78.57	ND	0	51.36	129.93
	12/1/1996	—	79.40	ND	0	50.53	129.93
	1/1/1998	—	78.40	ND	0	51.53	129.93
	8/1/1998	—	—	—	—	—	Well Damaged
	1/1/1999	—	—	—	—	—	Well Destroyed
MW-501 Abandoned	6/1/1988	—	92.46	91.16	1.3	37.28	128.70
	9/1/1988	—	94.39	93.03	1.36	35.40	128.70
	12/1/1988	—	94.41	93.71	0.7	34.85	128.70
	3/1/1989	—	94.81	94.06	0.75	34.49	128.70
	6/1/1989	—	94.62	93.81	0.81	34.73	128.70
	9/1/1989	—	96.17	95.21	0.96	33.30	128.70
	12/1/1989	—	97.15	96.32	0.83	32.21	128.70
	3/1/1990	—	97.62	96.80	0.82	31.74	128.70
	6/1/1990	—	96.02	95.27	0.75	33.28	128.70
	9/1/1990	—	97.80	96.85	0.95	31.66	128.70
	12/1/1990	—	98.82	97.64	1.18	30.82	128.70
	3/1/1991	—	96.83	96.25	0.58	32.33	128.70
	6/1/1991	—	95.94	95.44	0.5	33.16	128.70
	9/1/1991	—	96.12	95.62	0.5	32.98	128.70
	12/1/1991	—	95.91	95.44	0.47	33.17	128.70
	3/1/1992	—	94.14	93.93	0.21	34.73	128.70
	6/1/1992	—	92.98	92.97	0.01	35.73	128.70
	9/1/1992	—	93.42	93.25	0.17	35.42	128.70
	12/1/1992	—	92.99	92.85	0.14	35.82	128.70
	3/1/1993	—	91.60	ND	0	37.10	128.70
	5/1/1993	—	89.45	ND	0	39.25	128.70
	9/1/1993	—	87.77	87.76	0.01	40.94	128.70
	12/1/1993	—	86.25	86.24	0.01	42.46	128.70
	3/1/1994	—	83.19	83.18	0.01	45.52	128.70
	6/1/1994	—	81.35	81.34	0.01	47.36	128.70

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-501 Abandoned	9/1/1994	—	81.27	81.26	0.01	47.44	128.70
	12/1/1994	—	81.50	81.49	0.01	47.21	128.70
	3/1/1995	—	80.23	ND	0	48.47	128.70
	9/1/1995	—	76.04	ND	0	52.66	128.70
	12/1/1995	—	79.09	ND	0	49.61	128.70
	7/1/1996	—	77.84	ND	0	50.86	128.70
	12/1/1996	—	78.67	ND	0	50.03	128.70
	1/1/1998	—	—	—	—	—	128.70
	8/1/1998	—	—	—	—	—	Well Damaged
	1/1/1999	—	—	—	—	—	Well Damaged
MW-501A	7/1/1999	—	77.70	ND	0	—	Not Surveyed
	1/1/2000	—	81.83	ND	0	—	Not Surveyed
	7/1/2000	—	83.24	ND	0	—	Not Surveyed
	2/1/2001	—	84.48	ND	0	—	Not Surveyed
	7/1/2001	—	84.33	ND	0	—	Not Surveyed
	5/1/2002	—	85.76	ND	0	—	Not Surveyed
	9/1/2002	—	87.96	ND	0	—	Not Surveyed
	6/28/2004	95.00	Well was not located for sampling				
	10/4/2005	92.58	Dry	ND	0	Dry	NM
	2/13/2006	92.60	Dry	ND	0	Dry	NM
MW-502	6/1/1988	—	94.00	ND	0	37.19	131.19
	9/1/1988	—	94.95	ND	0	36.24	131.19
	12/1/1988	—	96.35	ND	0	34.84	131.19
	3/1/1989	—	96.75	ND	0	34.44	131.19
	6/1/1989	—	97.27	94.14	3.13	36.42	131.19
	9/1/1989	—	99.08	96.25	2.83	34.37	131.19
	12/1/1989	—	100.40	98.65	1.75	32.19	131.19
	3/1/1990	—	100.96	99.23	1.73	31.61	131.19
	6/1/1990	—	99.16	97.77	1.39	33.14	131.19
	6/1/1991	—	97.95	97.21	0.74	33.46	130.82
	9/1/1991	—	98.20	97.46	0.74	33.21	130.82
	12/1/1991	—	97.97	97.19	0.78	33.47	130.82
	3/1/1992	—	96.00	95.57	0.43	35.16	130.82
	6/1/1992	—	94.95	94.65	0.3	36.11	130.82
	9/1/1992	—	95.51	95.11	0.4	35.63	130.82

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-502	12/1/1992	—	95.14	94.87	0.27	35.90	130.82
	3/1/1993	—	93.30	ND	0	37.52	130.82
	5/1/1993	—	91.13	ND	0	39.69	130.82
	9/1/1993	—	89.45	89.44	0.01	41.38	130.82
	12/1/1993	—	87.94	87.93	0.01	42.89	130.82
	3/1/1994	—	84.70	84.69	0.01	46.13	130.82
	6/1/1994	—	82.99	82.98	0.01	47.84	130.82
	9/1/1994	—	83.03	ND	0	47.79	130.82
	12/1/1994	—	83.40	ND	0	47.42	130.82
	3/1/1995	—	81.96	ND	0	48.86	130.82
	9/1/1995	—	81.05	ND	0	49.77	130.82
	12/1/1995	—	81.02	ND	0	49.80	130.82
	7/1/1996	—	79.83	ND	0	50.99	130.82
	12/1/1996	—	80.68	ND	0	50.14	130.82
	1/1/1998	—	79.78	ND	0	51.04	130.82
	8/1/1998	—	78.98	ND	0	51.84	130.82
	1/1/1999	—	76.73	ND	0	51.57	128.30
	7/1/1999	—	76.90	ND	0	51.40	128.30
	1/1/2000	—	81.56	ND	0	46.74	128.30
	7/1/2000	—	83.48	ND	0	44.82	128.30
	2/1/2001	—	84.42	ND	0	43.88	128.30
	7/1/2001	—	84.32	ND	0	43.98	128.30
	5/1/2002	—	85.70	ND	0	42.60	128.30
	9/1/2002	—	88.22	ND	0	40.08	128.30
	6/29/2004	104.00	93.31	93.26	0.05	35.03	128.30
	10/4/2005	100.49	94.90	ND	0	33.40	128.30
	2/13/2006	100.56	93.40	ND	0	34.90	128.30
MW-503 Abandoned	6/1/1988	—	92.55	ND	0	38.88	131.43
	9/1/1988	—	93.26	ND	0	38.17	131.43
	12/1/1988	—	94.74	ND	0	36.69	131.43
	3/1/1989	—	95.18	ND	0	36.25	131.43
	6/1/1989	—	95.50	ND	0	35.93	131.43
	9/1/1989	—	96.30	ND	0	35.13	131.43
	12/1/1989	—	97.16	ND	0	34.27	131.43
	3/1/1990	—	97.54	ND	0	33.89	131.43

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-503 Abandoned	6/1/1990	—	97.30	ND	0	34.13	131.43
	9/1/1990	—	97.70	ND	0	33.73	131.43
	12/1/1990	—	98.27	ND	0	33.16	131.43
	3/1/1991	—	96.64	ND	0	34.79	131.43
	6/1/1991	—	95.79	ND	0	35.64	131.43
	9/1/1991	—	96.05	ND	0	35.38	131.43
	12/1/1991	—	95.80	ND	0	35.63	131.43
	3/1/1992	—	93.98	ND	0	37.45	131.43
	6/1/1992	—	93.01	ND	0	38.42	131.43
	9/1/1992	—	93.52	ND	0	37.91	131.43
	12/1/1992	—	93.11	ND	0	38.32	131.43
	3/1/1993	—	91.67	ND	0	39.76	131.43
	5/1/1993	—	88.78	ND	0	42.65	131.43
	9/1/1993	—	87.47	87.45	0.02	43.98	131.43
	12/1/1993	—	86.02	86.00	0.02	45.43	131.43
	3/1/1994	—	82.54	82.53	0.01	48.90	131.43
	6/1/1994	—	80.95	80.94	0.01	50.49	131.43
	9/1/1994	—	81.41	81.40	0.01	50.03	131.43
	12/1/1994	—	81.75	ND	0	49.68	131.43
	3/1/1995	—	80.10	ND	0	51.33	131.43
	9/1/1995	—	79.34	ND	0	52.09	131.43
	12/1/1995	—	79.37	ND	0	52.06	131.43
	7/1/1996	—	78.35	ND	0	53.08	131.43
	12/1/1996	—	79.31	ND	0	52.12	131.43
	1/1/1998	—	78.24	ND	0	53.19	131.43
	8/1/1998	—	77.45	ND	0	53.98	131.43
	1/1/1999	—	—	—	—	—	Well Destroyed
MW-503B	2/1/1999	—	77.05	ND	0	52.91	129.96
	7/1/1999	—	78.64	ND	0	51.32	129.96
	1/1/2000	—	82.58	ND	0	47.38	129.96
	7/1/2000	—	84.17	ND	0	45.79	129.96
	2/1/2001	—	85.06	ND	0	44.90	129.96
	7/1/2001	—	84.98	ND	0	44.98	129.96
	5/1/2002	—	86.32	ND	0	43.64	129.96
	9/1/2002	—	89.14	ND	0	40.82	129.96

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-503B	6/28/2004	109.00	93.97	ND	0	35.99	129.96
	10/4/2005	108.60	95.34	ND	0	34.62	129.96
	2/13/2006	108.79	93.79	ND	0	36.17	129.96
MW-504**	6/1/1988	--	92.56	90.73	1.83	42.73	133.83
	9/1/1988	--	93.98	92.41	1.57	41.11	133.83
	12/1/1988	--	94.70	92.83	1.87	40.63	133.83
	3/1/1989	--	96.25	93.50	2.75	39.78	133.83
	6/1/1989	--	94.36	92.16	2.2	41.23	133.83
	9/1/1989	--	99.21	97.15	2.06	36.27	133.83
	12/1/1989	--	96.80	95.45	1.35	38.11	133.83
	3/1/1990	--	97.10	95.72	1.38	37.83	133.83
	6/1/1990	--	95.75	95.13	0.62	38.58	133.83
	12/1/1990	--	97.47	96.31	1.16	37.97	134.51
	6/1/1991	--	95.20	ND	0	39.31	134.51
	9/1/1991	--	95.19	ND	0	39.32	134.51
	12/1/1991	--	95.08	ND	0	39.43	134.51
	3/1/1992	--	95.55	ND	0	38.96	134.51
	6/1/1992	--	92.28	ND	0	42.23	134.51
	9/1/1992	--	92.47	ND	0	42.04	134.51
	12/1/1992	--	92.32	ND	0	42.19	134.51
	3/1/1993	--	91.09	ND	0	43.42	134.51
	5/1/1993	--	88.78	ND	0	45.73	134.51
	9/1/1993	--	86.64	86.63	0.01	47.88	134.51
	11/1/1993	--	85.10	ND	0	49.41	134.51
	3/1/1994	--	82.26	82.25	0.01	52.26	134.51
	6/1/1994	--	80.43	ND	0	54.08	134.51
	9/1/1994	--	80.59	80.58	0.01	53.93	134.51
	12/1/1994	--	81.14	ND	0	53.37	134.51
	3/1/1995	--	80.06	ND	0	54.45	134.51
	9/1/1995	--	78.55	ND	0	55.96	134.51
	12/1/1995	--	78.76	ND	0	55.75	134.51
	7/1/1996	--	77.92	ND	0	56.59	134.51
	12/1/1996	--	79.15	78.85	0.3	55.60	134.51
	1/1/1998	--	78.00	77.98	0.02	56.53	134.51
	8/1/1998	--	77.00	76.98	0.02	57.53	134.51

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-504**	1/1/1999	—	77.56	77.46	0.1	57.03	134.51
	7/1/1999	—	79.12	78.63	0.49	55.78	134.51
	1/1/2000	—	82.88	82.20	0.68	52.17	134.51
	7/1/2000	—	84.90	83.96	0.94	50.36	134.51
	2/1/2001	—	—	86.24	—	—	134.51
	7/1/2001	—	86.47	84.58	1.89	49.55	134.51
	5/1/2002	—	87.20	86.10	1.1	48.19	134.51
	9/1/2002	—	89.38	88.35	1.03	45.95	134.51
	6/29/2004	118.00	94.56	93.65	0.91	40.68	134.51
	10/4/2005	95.85	95.12	NM	NM	NM	134.51
	2/13/2006	95.95	93.80	ND	Sheen	40.71	134.51
MW-600 Abandoned	9/1/1990	—	91.48	90.31	1.17	29.51	120.05
	12/1/1990	—	92.43	90.79	1.64	28.93	120.05
	3/1/1991	—	89.88	89.00	0.88	30.87	120.05
	6/1/1991	—	89.35	88.45	0.9	31.42	120.05
	9/1/1991	—	89.64	88.76	0.88	31.11	120.05
	12/1/1991	—	88.91	88.58	0.33	31.40	120.05
	3/1/1992	—	87.09	86.89	0.2	33.12	120.05
	6/1/1992	—	86.26	86.12	0.14	33.90	120.05
	9/1/1992	—	86.90	86.69	0.21	33.32	120.05
	12/1/1992	—	86.02	86.00	0.02	34.05	120.05
	3/1/1993	—	84.63	ND	0	35.42	120.05
	5/1/1993	—	82.52	ND	0	37.53	120.05
	9/1/1993	—	80.99	80.98	0.01	39.07	120.05
	12/1/1993	—	79.49	79.48	0.01	40.57	120.05
	3/1/1994	—	76.01	76.00	0.01	44.05	120.05
	6/1/1994	—	74.40	74.39	0.01	45.66	120.05
	9/1/1994	—	74.73	74.72	0.01	45.33	120.05
	12/1/1994	—	74.90	74.84	0.06	45.20	120.05
	3/1/1995	—	73.65	73.03	0.62	46.90	120.05
	9/1/1995	—	73.69	73.30	0.39	46.67	120.05
	12/1/1995	—	72.02	ND	0	48.03	120.05
	7/1/1996	—	73.55	70.59	2.96	48.87	120.05
	12/1/1996	—	73.90	71.35	2.55	48.19	120.05
	1/1/1998	—	75.05	69.67	5.38	49.30	120.05

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-600	8/1/1998	—	74.50	72.70	1.8	46.99	120.05
Abandoned	1/1/1999	—	73.72	69.60	4.12	49.63	120.05
MW-600A	7/1/1999	—	77.55	77.32	0.23	42.97	120.34
	1/1/2000	—	77.80	76.77	1.03	43.36	120.34
	7/1/2000	—	78.99	78.59	0.4	42.07	120.34
	2/1/2001	—	79.87	79.39	0.48	41.33	120.34
	7/1/2001	—	80.38	79.82	0.56	40.97	120.34
	5/1/2002	—	83.20	80.56	2.64	39.25	120.34
	9/1/2002	—	84.58	83.62	0.96	36.53	120.34
	6/29/2004	100.00	91.02	87.97	3.05	31.76	120.34
	10/4/2005	NM	92.62	89.46	3.16	30.25	120.34
	2/14/2006	NM	91.15	87.92	3.23	31.77	120.34
MW-601	9/1/1990	—	96.64	95.89	0.75	28.99	125.03
	12/1/1990	—	97.01	96.52	0.49	28.41	125.03
	3/1/1991	—	94.84	ND	0	30.19	125.03
	6/1/1991	—	94.27	ND	0	30.76	125.03
	9/1/1991	—	94.54	ND	0	30.49	125.03
	12/1/1991	—	94.30	ND	0	30.73	125.03
	3/1/1992	—	92.66	ND	0	32.37	125.03
	6/1/1992	—	91.81	ND	0	33.22	125.03
	9/1/1992	—	92.80	92.28	0.52	32.65	125.03
	12/1/1992	—	91.78	ND	0	33.25	125.03
	3/1/1993	—	90.38	ND	0	34.65	125.03
	5/1/1993	—	88.35	ND	0	36.68	125.03
	9/1/1993	—	86.76	86.75	0.01	38.28	125.03
	12/1/1993	—	85.36	85.35	0.01	39.68	125.03
	3/1/1994	—	82.01	82.00	0.01	43.03	125.03
	6/1/1994	—	80.30	80.25	0.05	44.77	125.03
	9/1/1994	—	80.50	80.40	0.1	44.61	125.03
	12/1/1994	—	80.65	80.52	0.13	44.48	125.03
	3/1/1995	—	79.08	78.98	0.1	46.03	125.03
	9/1/1995	—	78.36	78.11	0.25	46.87	125.03
	12/1/1995	—	78.07	ND	0	46.96	125.03
	7/1/1996	—	77.03	76.75	0.28	48.22	125.03
	12/1/1996	—	77.57	ND	0	47.46	125.03

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-601 Abandoned	1/1/1998	—	76.79	76.40	0.39	48.55	125.03
	8/1/1998	—	76.29	76.05	0.24	48.93	125.03
	1/1/1999	—	76.62	75.95	0.67	48.95	125.03
MW-601 A	7/1/1999	—	77.39	77.36	0.03	49.16	126.53
	1/1/2000	—	81.03	ND	0	45.50	126.53
	7/1/2000	—	82.72	82.70	0.02	43.83	126.53
	2/1/2001	—	83.73	83.71	0.02	42.82	126.53
	7/1/2001	—	84.07	ND	0	42.46	126.53
	5/1/2002	—	85.42	ND	0	41.11	126.53
	9/1/2002	—	87.91	ND	0	38.62	126.53
	6/29/2004	100.00	Dry	ND	0	Dry	126.53
	7/1/1996	—	72.01	ND	0	46.53	118.54
MW-603	12/1/1996	—	72.39	ND	0	46.15	118.54
	1/1/1998	—	71.33	ND	0	47.21	118.54
	8/1/1998	—	71.12	ND	0	47.42	118.54
	1/1/1999	—	77.71	ND	0	40.83	118.54
	7/1/1999	—	72.97	ND	0	45.57	118.54
	1/1/2000	—	76.87	ND	0	41.67	118.54
	7/1/2000	—	78.00	ND	0	40.54	118.54
	2/1/2001	—	78.48	ND	0	40.06	118.54
	7/1/2001	—	79.14	ND	0	39.40	118.54
	5/1/2002	—	80.21	ND	0	38.33	118.54
	9/1/2002	—	83.86	ND	0	34.68	118.54
	6/29/2004	100.00	88.20	ND	0	30.34	118.54
	10/4/2005	97.28	89.53	ND	0	29.01	118.54
	2/13/2006	96.90	88.49	ND	0	30.05	118.54
MW-604	7/1/1996	—	88.79	ND	0	49.37	138.16
	12/1/1996	—	89.57	ND	0	48.59	138.16
	1/1/1998	—	88.61	ND	0	49.55	138.16
	8/1/1998	—	87.55	ND	0	50.61	138.16
	1/1/1999	—	87.88	ND	0	50.28	138.16
	7/1/1999	—	88.53	ND	0	49.63	138.16
	1/1/2000	—	92.10	ND	0	46.06	138.16
	7/1/2000	—	94.21	ND	0	43.95	138.16
	2/1/2001	—	95.65	ND	0	42.51	138.16

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-604	7/1/2001	—	95.42	ND	0	42.74	138.16
	5/1/2002	—	96.79	ND	0	41.37	138.16
	9/1/2002	—	98.22	ND	0	39.94	138.16
	6/28/2004	103.00	102.32	ND	0	35.84	138.16
	10/4/2005	103.14	102.78	ND	0	35.38	138.16
	2/13/2006	103.25	Dry	ND	0	Dry	138.16
MW-605	7/1/1996	—	74.03	ND	0	40.51	114.54
	12/1/1996	—	74.06	ND	0	40.48	114.54
	1/1/1998	—	73.19	ND	0	41.35	114.54
	8/1/1998	—	73.18	ND	0	41.36	114.54
	1/1/1999	—	72.52	ND	0	42.02	114.54
	7/1/1999	—	74.62	ND	0	39.92	114.54
	1/1/2000	—	78.58	ND	0	35.96	114.54
	7/1/2000	—	79.54	ND	0	35.00	114.54
	2/1/2001	—	79.99	ND	0	34.55	114.54
	7/1/2001	—	80.83	ND	0	33.71	114.54
	5/1/2002	—	81.84	ND	0	32.70	114.54
	9/1/2002	—	85.70	ND	0	28.84	114.54
	6/28/2004	95.00	89.55	ND	0	24.99	114.54
	10/4/2005	94.03	91.22	ND	0	23.32	114.54
	2/13/2006	94.00	88.91	ND	0	25.63	114.54
MW-606	7/1/1996	—	77.19	ND	0	36.70	113.89
	12/1/1996	—	77.50	ND	0	36.39	113.89
	1/1/1998	—	75.92	ND	0	37.97	113.89
	8/1/1998	—	75.93	ND	0	37.96	113.89
	1/1/1999	—	75.26	ND	0	38.63	113.89
	7/1/1999	—	77.19	ND	0	36.70	113.89
	1/1/2000	—	80.87	ND	0	33.02	113.89
	7/1/2000	—	82.12	ND	0	31.77	113.89
	2/1/2001	—	82.70	ND	0	31.19	113.89
	7/1/2001	—	83.55	ND	0	30.34	113.89
	5/1/2002	—	84.69	ND	0	29.20	113.89
	9/1/2002	—	88.55	ND	0	25.34	113.89
	6/28/2004	100.00	92.01	ND	0	21.88	113.89
	10/4/2005	99.16	94.21	ND	0	19.68	113.89

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
MW-606	2/13/2006	99.30	91.98	ND	0	21.91	113.89
MW-607	7/1/1996	—	86.88	ND	0	39.15	126.03
	12/1/1996	—	87.56	ND	0	38.47	126.03
	1/1/1998	—	86.50	ND	0	39.53	126.03
	8/1/1998	—	85.64	ND	0	40.39	126.03
	1/1/1999	—	85.88	ND	0	40.15	126.03
	7/1/1999	—	86.52	ND	0	39.51	126.03
	1/1/2000	—	90.40	ND	0	35.63	126.03
	7/1/2000	—	92.02	ND	0	34.01	126.03
	2/1/2001	—	93.53	ND	0	32.50	126.03
	7/1/2001	—	93.58	ND	0	32.45	126.03
	5/1/2002	—	95.30	ND	0	30.73	126.03
	9/1/2002	—	98.05	ND	0	27.98	126.03
	6/28/2004	107.00	102.29	ND	0	23.74	126.03
	10/4/2005	106.80	104.78	ND	0	21.25	126.03
	2/13/2006	106.61	103.34	ND	0	22.69	126.03
W-1	12/1/1996	—	90.10	ND	0	52.79	142.89
	1/1/1998	—	89.28	ND	0	53.61	142.89
	8/1/1998	—	88.19	ND	0	54.70	142.89
	1/1/1999	—	88.62	ND	0	54.27	142.89
	7/1/1999	—	89.25	ND	0	53.64	142.89
	1/1/2000	—	91.80	ND	0	51.09	142.89
	7/1/2000	—	94.00	ND	0	48.89	142.89
	2/1/2001	—	95.33	ND	0	47.56	142.89
	7/1/2001	—	95.32	ND	0	47.57	142.89
	5/1/2002	—	96.70	ND	0	46.19	142.89
	9/1/2002	—	97.77	ND	0	45.12	142.89
	6/28/2004	129.00	100.66	ND	0	42.23	142.89
	10/4/2005	129.63	102.95	ND	0	39.94	142.89
	2/13/2006	129.61	102.60	ND	0	40.29	142.89
W-2 Abandoned	12/1/1996	—	88.72	ND	0	50.59	139.31
	1/1/1998	—	87.95	ND	0	51.36	139.31
	8/1/1998	—	86.95	ND	0	52.36	139.31
W-3 Abandoned	12/1/1996	—	90.98	ND	0	45.13	136.11
	1/1/1998	—	89.95	ND	0	46.16	136.11

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
W-3A**	8/1/1998	—	91.14	ND	0	32.86	124.00
	1/1/1999	—	91.55	ND	0	32.45	124.00
	7/1/1999	—	92.21	ND	0	31.79	124.00
	1/1/2000	—	95.65	ND	0	28.35	124.00
	7/1/2000	—	97.10	97.14	0.04	26.93	124.00
	2/1/2001	—	98.26	ND	0	25.74	124.00
	7/1/2001	—	98.20	ND	0	25.80	124.00
	5/1/2002	—	100.39	99.28	1.11	24.50	124.00
	9/1/2002	—	102.59	100.80	1.79	22.84	124.00
	6/29/2004	115.00	102.71	101.30	1.41	22.42	124.00
	10/4/2005	104.55	104.55	103.55	1.00	20.25	124.00
	2/13/2006	104.60	102.78	NA	Sheen	21.22	124.00
W-4	12/1/1996	—	92.88	ND	0	49.50	142.38
	1/1/1998	—	92.01	ND	0	50.37	142.38
	8/1/1998	—	90.90	ND	0	51.48	142.38
	1/1/1999	—	91.31	ND	0	51.07	142.38
	7/1/1999	—	91.90	ND	0	50.48	142.38
	1/1/2000	—	94.66	ND	0	47.72	142.38
	7/1/2000	—	96.88	ND	0	45.50	142.38
	2/1/2001	—	98.20	ND	0	44.18	142.38
	7/1/2001	—	98.04	ND	0	44.34	142.38
	5/1/2002	—	99.43	ND	0	42.95	142.38
	9/1/2002	—	100.60	ND	0	41.78	142.38
	6/28/2004	132.00	102.13	ND	0	40.25	142.38
	10/4/2005	129.07	104.36	ND	0	38.02	142.38
	2/13/2006	129.54	103.91	ND	0	38.47	142.38
EW-1	8/1/1998	—	85.99	ND	0	26.41	112.40
	1/1/1999	—	86.22	ND	0	26.18	112.40
	7/1/1999	—	86.51	ND	0	25.89	112.40
	1/1/2000	—	88.29	88.21	0.08	24.17	112.40
	7/1/2001	—	93.92	91.31	2.61	20.57	112.40
	5/1/2002	—	94.39	92.78	1.61	19.30	112.40
	9/1/2002	—	95.49	93.38	2.11	18.60	112.40
	6/29/2004	113.50	98.33	96.15	2.18	15.81	112.40
	10/4/2005	NM	100.12	98.40	1.72	13.66	112.40

TABLE D1
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Depth (feet)	Depth to Water (feet)	Depth to Hydrocarbons (feet)	Hydrocarbon Thickness (feet)	Groundwater Elevation (feet-msl)	Top of Casing Elevation (feet-msl)
EW-1	2/13/2006	NM	99.55	98.89	0.66	13.38	112.40
W-7***	10/4/2005	NM	87.97	ND	0	NA	NM
	2/13/2006	NM	85.63	ND	0	NA	NM
W-8***	10/4/2005	NM	69.18	ND	0	NA	NM
	2/13/2006	NM	69.11	ND	0	NA	NM

Notes:

Groundwater elevation = (top of casing elevation - depth to water) + (0.8 x hydrocarbon thickness) for Haley & Aldrich, Inc. and BBL, Inc. sampling events
 Groundwater elevation correction for the presence of free product was performed assuming a specific gravity of 0.8 for the petroleum product

NA- Not applicable

NM- Not measured

- Data not listed in former reports

ND- Not detected

* Damage to casing of monitoring well MW-204 was discovered in October 2005; casing above ground was cut in order to collect groundwater sample; top casing has not yet been resurveyed

** Sheen developed during sampling of monitoring wells MW-504 and W-3A

*** Former production wells W-7 and W-8 were never surveyed and are not used in calculating groundwater gradients (screened in a deeper aquifer)

msl- Mean sea level

Data table created from the following reports: *Semi-Annual Groundwater Monitoring Report: February 2001 Monitoring Event*, by Versar, dated June 6, 2001;
Semi-Annual Groundwater Monitoring Report: September 2002 Monitoring Event, by TRC, dated December 9, 2002; *2004 Semi-Annual Groundwater Monitoring Report*, by Haley & Aldrich, Inc., dated October 2004.

TABLE D2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF TPH-g, VOCs, AND OXYGENATES RESULTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPH-g	TPH-d	TRPH	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	BDCM	BCM	Chloroform	c-1,2 DCE	1,2-DCB	Dichlorodifluoromethane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB	MC	n-BB	n-PB	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4 TMB	1,3,5 TMB	TOX	VC	CB
Operation Area 1: Bloomfield Property																																			
MW-106	12/20/1995	0.79	--	<10	--	0.012	0.0035	0.01	0.01	--	--	--	0.033	--	--	--	--	--	--	--	--	--	--	--	--	0.015	0.0015	--	--	--	--	--			
	7/31/1996	0.6	--	--	0.0036	0.014	0.0022	0.009	<0.005	<0.0003	--	<0.0003	0.026	<0.0003	<0.0003	<0.0003	0.00054	<0.0003	--	<0.0003	--	--	--	--	<0.0003	0.017	0.0025	--	--	--	0.00098	--			
	12/17/1996	0.36	--	--	<0.002	0.0031	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	0.063	<0.002	<0.002	<0.002	<0.002	0.027	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.026	<0.002	<0.002	<0.002	<0.004	--			
	1/20/1998	0.8	--	--	<0.005	0.024	<0.005	0.0081	<0.005	<0.005	<0.005	<0.005	0.046	<0.005	<0.005	<0.005	0.0096	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
	8/20/1998	1	--	--	<0.005	0.027	<0.005	0.084	<0.005	<0.005	<0.005	<0.005	0.43	<0.005	<0.01	<0.005	<0.005	0.0096	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0058	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
	1/27/1999	1.1	--	--	<0.005	21	<0.005	0.0085	<0.005	<0.005	<0.005	<0.005	0.47	<0.005	--	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
	7/19/1999	0.89	--	--	<0.001	0.018	<0.001	0.0077	<0.001	<0.001	<0.001	<0.001	0.039	<0.001	<0.001	0.0017	<0.0005	0.012	<0.001	0.007	<0.01	<0.001	0.052	<0.01	<0.001	0.015	<0.001	<0.001	0.0064	<0.001	<0.001	<0.005	<0.005	<0.005	
	1/14/2000	1	--	--	<0.001	0.0041	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.02	<0.001	<0.001	<0.001	<0.001	0.022	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
	7/31/2000	<0.5	--	--	<0.001	0.0053	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.26	<0.001	<0.001	0.027	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.21	<0.001	<0.001	<0.001	<0.001	0.025	--		
	2/6/2001	0.53	--	--	<0.001	0.0023	<0.001	0.0013	<0.001	<0.001	<0.001	<0.001	0.35	<0.001	<0.001	0.001	<0.001	0.012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.025	0.0028	<0.001	<0.001	<0.001	<0.015	<0.001		
	7/24/2001	0.47	--	--	<0.001	0.0017	<0.001	<0.001	<0.001	<0.001	0.014	<0.001	<0.001	0.033	<0.001	<0.0005	<0.001	0.018	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.023	<0.001	<0.001	<0.001	<0.005	<0.001			
MW-107	12/21/1995	<0.5	--	<10	--	0.016	0.00099	0.00077	0.029	--	--	--	0.028	--	--	--	--	--	--	--	--	--	--	--	--	0.0065	--	--	--	--	--	--			
	7/31/1996	0.6	--	--	0.11	0.031	0.0044	0.0066	<0.005	<0.0003	--	<0.0003	0.031	<0.0003	<0.0003	<0.0003	0.00045	<0.0003	--	<0.0003	--	--	--	--	<0.0003	0.019	0.00078	--	--	--	0.0011	--			
	12/17/1996	0.38	--	--	<0.002	0.022	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	0.08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
	1/20/1998	0.83	--	--	<0.005	0.042	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.12	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
	8/20/1998	0.83	--	--	<0.005	0.028	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.098	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
	1/27/1999	1.1	--	--	<0.005	0.036	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.1	<0.005	<0.005	<0.005	<0.005	0.069	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005					
	7/19/1999	0.82	--	--	<0.005	0.038	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.12	<0.005	<0.005	<0.005	<0.005																		

TABLE D2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF TPH-g, VOCs, AND OXYGENATES RESULTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

TABLE D2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF TPH-g, VOCs, AND OXYGENATES RESULTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPH-g	TPH-d	TRPH	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	BDCM	BCM	Chloroform	c-1,2 DCE	1,2-DCB	Dichloro difluoro methane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB	MC	n-BB	n-PB	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4 TMB	1,3,5 TMB	TOX	VC	CB	
MW-104 Abandoned	12/1/1990	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	3/1/1991	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	6/1/1991	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	9/1/1991	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/1/1991	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	3/1/1992	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	6/1/1992	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	9/1/1992	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/1/1992	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	3/1/1993	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	5/1/1993	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	5/25/1993	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	9/1/1993	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	11/1/1993	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	3/1/1994	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	6/1/1994	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/1/1994	--	--	--	--	<0.005	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	3/1/1995	--	--	--	--	<0.005	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	9/1/1995	--	--	--	--	0.003	<0.002	<0.002	<0.002	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/13/1995	<0.5	--	--	--	0.003	0.0006	<0.005	<0.005	--	--	--	--	--	0.0027	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	7/31/1996	<0.1	--	--	<0.01	0.0022	0.0018	<0.001	0.0027	<0.0003	--	<0.0003	0.0015	<0.0003	<0.0003	0.00058	0.00051	<0.0003	<0.0003	<0.0003	--	--	--	--	--	<0.0003	<0.0003	0.00054	--	--	<0.0003	--	--			
	12/16/1996	0.31	--	--	<0.002	0.0042	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0027	<0.001	<0.001	<0.001	<0.001	0.01	<0.001	<0.001	0.0052	<0.001	<0.001	0.0029	--	<0.001	<0.001	<0.001	<0.001	0.0032	--	--	
	1/20/1998	<0.1	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
	8/18/1998	<0.1	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
	1/27/1999	<0.1	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
MW-104A	7/19/1999	<0.5	--	--	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0056	<0.001	<0.001	<0.001	0.0012	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
	1/13/2000	<0.5	--	--	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0067	<0.001	<0.001	<0.001	0.0027	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0032	--	--
	8/2/2000	<0.5	--	--	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0054	<0.001	<0.001	<0.001	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
	2/7/2001	<0.5	--	--	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0042	<0.001	<0.001	<0.001	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
	7/25/2001	<0.1	--	--	<0.001	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0039	<0.001	<0.001	<0.001	0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
MW-504	12/1/1993	--	--	--	--	11	1.3	1.8	9.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	6/1/1994	--	--	--	--	8.6	2.1	<0.5	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	12/1/1994	--	--	--	--	5.8	0.7	0.84	7.6																											

TABLE D2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF TPH-g, VOCs, AND OXYGENATES RESULTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPH-g	TPH-d	TRPH	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	BDCM	BCM	Chloroform	c-1,2 DCE	1,2-DCB	Dichloro difluoro methane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB	MC	n-BB	n-PB	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4 TMB	1,3,5 TMB	TOX	VC	CB
MW-201	8/1/1985	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	6/1/1988	--	--	--	--	1	0.15	<0.005	0.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	9/1/1988	--	--	--	--	0.52	0.21	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/1/1988	--	--	--	--	0.42	0.065	0.019	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	3/1/1989	--	--	--	--	0.21	0.027	0.024	0.047	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	6/1/1989	--	--	--	--	0.35	<0.005	<0.005	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	9/1/1989	--	--	--	--	0.83	0.1	0.032	0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/1/1989	--	--	--	--	0.51	0.076	0.024	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	3/1/1990	--	--	--	--	0.35	0.038	0.029	0.085	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	6/1/1990	--	--	--	--	0.82	0.049	0.084	0.083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	9/1/1990	--	--	--	--	0.34	0.015	0.02	0.073	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/1/1990	--	--	--	--	0.24	0.012	0.007	0.055	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	3/1/1991	--	--	--	--	0.5	<0.005	<0.005	0.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	6/1/1991	--	--	--	--	0.53	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--						
	9/1/1991	--	--	--	--	0.37	<0.005	<0.005	0.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/1/1991	--	--	--	--	0.34	0.009	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	6/1/1992	--	--	--	--	0.025	<0.005	<0.005	<0.005	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	9/1/1992	--	--	--	--	0.35	<0.005	<0.005	0.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/1/1992	--	--	--	--	1.15	<0.005	<0.005	0.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	3/1/1993	--	--	--	--	0.56	0.077	<0.05	0.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/1/1994	--	--	--	--	1.3	0.066	0.5	0.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	3/1/1995	--	--	--	--	0.29	<0.005	<0.005	<0.015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	9/1/1995	--	--	--	--	1.1	0.028	0.13	0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
	12/13/1995	9	--	<5	--	0.44	0.042	0.12	0.094	--	--	0.044	--	--	0.0094	0.0044	0.087	0.00081	--	0.0007	--	--	--	--	--	0.058	0.0017	0.11	--	--	--				
	7/31/1996	<0.1	--	<0.01	0.48	0.02	0.032	0.025	<0.0003	--	<0.0003	0.034	<0.0003	<0.0003	0.0094	0.0027	0.098	<0.0003	--	<0.0003	--	--	--	--	--	0.11	<0.0003	0.12	--	--	<0.0003	--			
	12/17/1996	3.7	--	<0.01	0.11	0.012	0.096	0.121	<0.01	<0.01	<0.01	0.089	<0.01	<0.01	<0.01	<0.01	0.17	<0.01	0.021	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.21	<0.01	0.21	0.14	0.028	--	<0.02	--		
	1/21/1998	2.6	--	<0.005	0.22	0.014	0.087	0.017	<0.005	<0.005	<0.005	0.064	<0.005	<0.01	0.01	<0.005	0.19	<0.005	<0.005	0.021	0.011	<0.005	<0.005	<0.005	<0.005	0.16	0.0053	0.18	0.02	0.012	--	<0.01	<0.005		
	1/21/1998DUP	2.1	--	<0.005	0.25	0.012	0.069	0.016	<0.005	<0.005	<0.005	0.071	<0.005	<0.01	0.0099	<0.005	0.074	<0.005	0.018	<0.005	<0.005	0.02	<0.01	<0.005	<0.005	0.012	0.0055	0.16	0.018	0.0099	--	<0.01	<0.005		
	8/18/1998	2.6	--	--	0.44	0.0086	0.02	0.013	<0.005	<0.005	<0.005	0.063	<0.005	<0.01	0.0063	<0.005	0.046	<0.005	0.0051	<0.005	<0.005	0.011	<0.005	<0.005	<0.005	0.016	<0.005	0.12	<0.005	<0.005	<0.01	<0.005	<0.005		
	7/19/1999	2.8	--	<0.005	0.16	0.029	0.069	0.0546	<0.005	<0.005	<0.005	0.063	<0.005	<0.005	0.0093	<0.0025	0.061	<0.005	0.021	<0.05	<0.005	0.025	<0.05	<0.005	<0.005	0.04	<0.012	0.16	0.053	0.015	--	<0.025	<0.005		
	1/12/2000	5.1	--	<0.006	0.52	0.014	0.053	0.016	<0.005	<0.0																									

TABLE D2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF TPH-g, VOCs, AND OXYGENATES RESULTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

TABLE D2
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TABLE D2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF TPH-g, VOCs, AND OXYGENATES RESULTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPH-g	TPH-d	TRPH	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	BDCM	BCM	Chloroform	c-1,2 DCE	1,2-DCB	Dichloro difluoro methane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB	MC	n-BB	n-PB	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4 TMB	1,3,5 TMB	TOX	VC	CB
MW-601 Abandoned	1/22/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
	8/20/1998	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
	1/28/1999	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS			
MW-601A	7/19/1999	42	--	--	11	18	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2.5	<5	<5	<50	<5	<50	<5	--	<5	<5	<5	<5	<5	<25	<5	--	<0.5	<1	
	1/13/2000	48	--	--	22	22	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<1	<10	<1	<1	<1	--	<1	<1	<1	<1	<1	<0.5	<1	--	<0.1	<0.2	
	8/3/2000	34	--	--	5.6	21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.069	<0.2	<0.2	<0.01	<0.2	<0.2	<0.2	<0.2	<0.1	<0.1	<0.1	<0.1	<0.1		
	2/7/2001	35	--	--	1.2	16	0.063	0.097	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.057	<0.5	<0.05	0.13	<0.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05			
	7/24/2001	31	--	--	2.8	15	<0.1	0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1	<0.1	<0.1	<0.1	0.0018	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.05	<0.1			
	12/1/1995	<0.5	--	<10	--	0.00098	0.0014	0.00062	0.0033	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-603	7/30/1996	<0.1	--	--	0.002	0.006	<0.005	0.0014	<0.005	0.0026	--	<0.0003	0.0064	<0.0003	<0.0003	0.0039	0.0095	0.03	<0.0003	--	<0.0003	--	--	--	--	0.053	<0.0003	0.056	--	--	0.00045	--			
	12/16/1996	<0.1	--	--	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.034	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
	1/22/1998	<0.1	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
	8/19/1998	<0.1	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0053	<0.005	<0.005	0.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005			
	1/27/1999	<0.1	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.029	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
	7/19/1999	<0.5	--	--	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.074	0.021	<0.001	0.003	0.04	0.031	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
	1/11/2000	<0.5	--	--	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.064	<0.001	<0.001	0.036	0.016	0.039	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
	7/31/2000	<0.5	--	--	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.093	<0.001	<0.001	0.067	0.072	0.088	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001				
	2/7/2001	<0.5	--	--	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.011	<0.001	<0.001	0.0085	0.0027	0.12	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001					
	7/24/2001	0.19	--	--	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	0.01	0.0029	0.15	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005					
	12/20/1995	1.9	--	<10	--	0.16	0.033	0.0078	0.021	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-604	7/30/1996	0.9	--	--	0.0124	0.073	0.0078	<0.005	0.009	<0.003	--	<0.0003	0.00098	<0.0003	<0.0003	0.0017	0.011	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	--	--	--	--	--	--	<0.0003	--				
	12/17/1996	0.71	--	--	<0.002	0.047	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.0057	<0.002	<0.002	0.0036	<0.002	<0.002	0.0022	--	<0.0020	<0.002	<0.002	<0.002	<0.002	<0.004	--					
	1/22/1998	0.41	--	--	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	0.007	<0.005	<0.005	0.0036	--	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
	8/19/1998	0.37	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005					
	1/27/1999	0.23	--	--	<0.005	0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0064	<0.005	<0.005	0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005				
	7/19/1999	0.5	--	--	<0.001	0.014	<0.001	<0.001	0.013	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.042	<0.001	<0.001	0.001	<0.0005	<0.001	0.049	<0.01	<0.001	0.013	<0.01	<0.001	0.026	--	<0.0005	<0.0005				
	1/11/2000	0.75	--	--	<0.001	0.021	<0.001	<0.001	0.001	<0.001	<0.001	<																							

TABLE D2
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF TPH-g, VOCs, AND OXYGENATES RESULTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	TPH-g	TPH-d	TRPH	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	BDCM	BCM	Chloroform	c-1,2 DCE	1,2-DCB	Dichlorodifluoro methane	1,1-DCA	1,2-DCA	1,1-DCE	1,2-DCP	IsoPB	MC	n-BB	n-PB	Naphthalene	p-IsoPT	sec-BB	Phenol	PCE	t-1,2-DCE	TCE	1,2,4 TMB	1,3,5 TMB	TOX	VC	CB
MW-E Abandoned	3/31/1995	0.06	--	--	--	0.0091	0.0066	0.0011	0.0023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	7/11/1995	<0.05	--	--	--	<0.0003	<0.0003	<0.0003	<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	10/5/1995	<0.5	--	--	--	<0.0003	<0.0003	<0.0003	<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	12/8/1995	<0.5	--	--	--	<0.0003	<0.0003	<0.0003	<0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	3/7/1996	<0.5	--	--	--	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				
	6/17/1996	<0.5	--	--	<0.02	<0.0005	<0.0005	<0.0005	<0.0015	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--				

NOTES

Table recreated from Versar, Inc. *Revised Master Work Plan, CENCO Refining Company, Santa Fe Springs, California*, dated January 28, 2000.

All concentrations reported in milligrams per liter (mg/L).

Blank = Not analyzed.

<0.001 = Not detected above the laboratory reporting limit shown.

* = Sample was analyzed by both EPA Methods 8010/8020 and 8240; highest detection value of the two analysis is shown.

NS: Not sampled due to well damage, free product in well, or not scheduled for sampling.

(A) = EPA Method 601/8010.

(B) = EPA Method 602/8020.

Abbreviations:

TPH-g = Total petroleum hydrocarbons as gasoline (Method 8020)

TPH-d = Total petroleum hydrocarbons as diesel (Method 8015)

TRPH = ASTM Method 2887 (unless otherwise indicated)

MTBE = Methyl tertiary butyl ether

B = Benzene

T = Toluene

E = Ethylbenzene

X = Total xylenes

BDCM = Bromodichloromethane

BCM = Bromochloromethane

c-1,2-DCE = cis-1,2-Dichloroethene

CB = Chlorobenzene

1,2-DCB = 1,2-Dichlorobenzene

1,1-DCA = 1,1-Dichloroethane

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

1,2-DCP = 1,2-Dichloropropane

iso-PB = iso-Propylbenzene

MC = Methylene chloride

n-BB = n-Butylbenzene

n-PB = n-Propylbenzene

p-iso-PT = p-iso-Propyltoluene

sec-BB = sec-Butylbenzene

PCE = Tetrachloroethene

t-1,2-DCE = trans-1,2-Dichloroethene

TCE = Trichloroethene

1,2,4-TMB = 1,2,4-Trimethylbenzene

1,3,5-TMB = 1,3,5-Trimethylbenzene

TOX = Total halogenated volatile organics (ASTM Method 2885)

VC = Vinyl chloride

t-BB= Tertiary Butylbenzene

TABLE D3
HISTORICAL GROUNDWATER ANALYTICAL RESULTS
SUMMARY OF INTRINSIC BIOREMEDIALATION PARAMETER RESULTS
FORMER CENCO REFINERY
SANTA FE SPRINGS, CALIFORNIA

Well ID	Date	Total Heterotrophic Bacteria (cfu/mL)	Pseudomonas Bacteria (MPN/100)	Methane (mg/L)	Ferrous Iron (mg/L)	Alkalinity (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
MW-104 A	7/22/1999	520	ND	NS	0.2	851	<0.050	45
	1/13/2000	ND	ND	0.322	0.88	849	<0.10	35
	8/3/2000	640	11	NS	0.93	798	<0.10	59
	2/7/2001	4400	<1	0.289	0.2	790	<0.10	98
	5/7/2002	NS	NS	0.257	3	720	<0.10	150
	9/24/2002	NS	NS	0.229	0.22	650	<0.10	250
MW-205	7/22/1999	100	ND	NS	0.5	648	<0.050	249
	1/11/2000	40	ND	2.24	0.95	771	<0.10	35
	8/3/2000	2200	36	NS	<0.10	794	<0.10	51
	2/7/2001	5600	<1	0.033	<0.10	740	<0.10	116
	5/8/2002	NS	NS	0.228	<0.10	610	<0.10	360
	9/23/2002	NS	NS	1.39	0.19	780	<0.10	64
MW-502	7/23/1999	28000	ND	NS	5.5	808	<0.050	<2
	1/13/2000	14000	ND	15.4	1.4	828	<0.10	4
	8/2/2000	10	<1	NS	0.85	834	<0.10	<2
	2/7/2001	24000	<1	0.984	0.7	840	<0.10	2
	5/9/2002	NS	NS	7.05	0.75	830	<0.10	<1 0
	9/23/2002	NS	NS	5.83	<0.10	850	<0.10	<1 0
MW-605	7/20/1999	40	ND	NS	<0.10	467	4.13	200
	1/11/2000	18	ND	NS	<0.10	486	5.2	181
	8/2/2000	<1	<1	NS	<0.10	530	5.8	203
	2/7/2001	1600	<1	NS	<0.10	510	7	164
	5/7/2002	NS	NS	<0.0010	<0.10	480	8.4	220
	9/24/2002	NS	NS	<0.0010	<0.10	490	8.3	220
MW-606	7/20/1999	72	ND	NS	<0.10	400	7.94	177
	1/11/2000	2.0	ND	NS	<0.10	390	8.6	236
	8/2/2000	<1	<1	NS	<0.10	406	8.8	260
	2/7/2001	3300	<1	<0.001	<0.10	390	9	261
	5/7/2002	NS	NS	<0.0010	<0.10	400	8.4	250
	9/24/2002	NS	NS	<0.0010	<0.10	390	8.6	280

NOTES:

Concentrations reported as "<" are not detected (ND) at or above the stated laboratory reporting limit

cfu/mL = colony forming units per milliliter

MPN/100 = most probable number of bacteria per 100 milliliters of sample

mg/L = Milligrams per liter

NS = Not sampled

ND = Bacteria were not detected

Data table created from the following reports: *Semi-Annual Groundwater Monitoring Report: February 2001 Monitoring Event*, by Versar, dated June 6, 2001; *Semi-Annual Groundwater Monitoring Report: September 2002 Monitoring Event*, by TRC, dated December 9, 2002.